

# AGRICULTURAL STUDIES

## OVERVIEW

Administered by the Department of Agricultural Education and Studies

For undergraduate curricula in agriculture and life sciences education, and agricultural studies, leading to the degree of bachelor of science, see College of Agriculture and Life Sciences, Curricula. (<http://catalog.iastate.edu/previouscatalogs/2023-2024/collegeofagricultureandlifesciences/>)

The department offers two curricula for students desiring to enter careers in agriculture and related fields. These curricula are agriculture and life sciences education and agricultural studies. The agricultural and life sciences education curriculum prepares persons for careers as agricultural education instructors, and educational specialists for industry, nonprofit organizations, and governmental agencies. The agricultural studies curriculum has two options, production and management and multidisciplinary. Students are prepared for careers in production agriculture and agricultural industry. Graduates of both curricula accept positions in agricultural business, industry, agencies, and production agriculture.

## Student Learning Outcomes

Graduates will have a broad base of agricultural knowledge, and will be skilled in decision making, planning, organizing, presenting, and evaluating information. Through the successful completion of the required coursework, active participation in clubs and organizations, and the acquisition of technical skills and experiences associated with work experiences, internships, and international travel, graduates of our baccalaureate programs meet the university, college, and departmental outcomes in the following nine areas:

1. professional, interpersonal, and cross-cultural communications
2. problem solving and critical thinking
3. leadership
4. entrepreneurship
5. life-long learning
6. ethics
7. environmental awareness
8. U.S. diversity
9. international perspectives.

More information regarding the departmental learning outcomes can be found at [www.ageds.iastate.edu/](http://www.ageds.iastate.edu/). (<http://www.ageds.iastate.edu/>)

## Curriculum in Agricultural Studies

Administered by the Department of Agricultural Education and Studies. Students are encouraged to develop one or more areas of concentration in agricultural sciences and economics.

### Production and Management Option

#### Total Degree Requirement: 120 cr.

Only 65 cr. from a two-year institution may apply which may include up to 16 technical cr.; 9 P-NP cr. of free electives; 2.00 minimum GPA.

#### University Requirements.:

ENGL 150	Critical Thinking and Communication	3
ENGL 250	Written, Oral, Visual, and Electronic Composition	3
	International Perspectives from approved list	3
LIB 160	Introduction to College Level Research	1
	US Diversity from approved list	3
<b>Total Credits</b>		<b>13</b>

#### CALS Requirements

##### Communications Proficiency:

6 cr. of English composition with a C or better and 3 cr. of speech fundamentals with a C or better.

AGEDS 311	Presentation and Sales Strategies for Agricultural Audiences	3
BIOL 101 or BIOL 211	Introductory Biology Principles of Biology I	3
CHEM 163	College Chemistry	4
CHEM 163L	Laboratory in College Chemistry	1
ECON 101	Principles of Microeconomics	3
	Ethics Elective from approved list	3
	Humanities Elective from approved list	3
	Life Science elective from approved list	3
MATH 140	College Algebra	3
STAT 104	Introduction to Statistics	3
<b>Total Credits</b>		<b>29</b>

#### Major Requirements

ACCT 284	Financial Accounting	3
AGEDS 110	Professional Development in Agricultural Education and Studies: New Student Seminar	1
AGEDS 215	Professional Development in Agricultural Education and Studies: Career Seminar	1
AGEDS 315	Personal, Professional, and Entrepreneurial Leadership in Agriculture	3
AGEDS 327	Survey of Agriculture and Life Sciences Communication	3
AGEDS 450	Farm Management and Operation	3

AGEDS 451	Agricultural Law	3
AGRON 181	Introduction to Crop Science	3
AGRON 182	Introduction to Soil Science	3
AGRON 280	Crop Development, Production and Management	3
AN S 101	Working with Animals	2
AN S 114	Survey of the Animal Industry	2
And 6 credit hours from AN S, any level or approved list		6
ECON 230	Farm Business Management	3
ECON 235	Introduction to Agricultural Markets	3
Econ 300 Level from Department Approved List		3
NREM 120	Introduction to Renewable Resources	3
or NREM 130	Natural Resources and Agriculture	
<b>Total Credits</b>		<b>48</b>

**Other Required Course:****Electives: Select courses to get to 120 credits.**

No more than 4 cr. of or 397 may count toward graduation.

No more than 6 cr. of 490 may count toward graduation.

**Multidisciplinary Option****Total Degree Requirement: 120 cr.**

Only 65 cr. from a two-year institution may apply which may include up to 16 technical cr.; 9 P-NP cr. of free electives; 2.00 minimum GPA.

**University Requirements**

ENGL 150	Critical Thinking and Communication	3
ENGL 250	Written, Oral, Visual, and Electronic Composition	3
LIB 160	Introduction to College Level Research	1
International Perspective from approved list		3
US Diversity from approved list		3
<b>Total Credits</b>		<b>13</b>

**CALS Requirements****Communications Proficiency:**

6 cr. of English composition with a C or better and 3 cr. of speech fundamentals with a C or better.

BIOL 101	Introductory Biology	3
or BIOL 211	Principles of Biology I	
Ethics Elective from approved list		3
Humanities Elective from approved list		3
Life Science Elective from approved list		3
MATH 140	College Algebra	3
Physical Science Elective from approved list		5
Speech Elective from approved list		3
Social Science Elective from approved list		3

STAT 104	Introduction to Statistics	3
<b>Total Credits</b>		<b>29</b>

**Major Requirements****Agriculture and Life Sciences Core**

AGEDS 110	Professional Development in Agricultural Education and Studies: New Student Seminar	1
AGEDS 215	Professional Development in Agricultural Education and Studies: Career Seminar	1
AGEDS 412	Internship in Agricultural Education and Studies	3
AGEDS 490C	Business, Industry, and Production Agriculture	3
Select one CALS area, including 6 credits at 300-400 level taken at Iowa State *		15
Select one CALS area, including 6 credits at 300-400 level taken at Iowa State *		15
Select one other area, including 6 credits at 300-400 level taken at Iowa State *		15
<b>Total Credits</b>		<b>53</b>

\* An individual course may only apply towards one area.

**Other Required Course:****Electives: Select courses to get to 120 credits.****Preveterinary Studies**

Preparation for admission to veterinary medicine may be accomplished through the agricultural studies curriculum.

Agricultural Studies, B.S.

Production and Management Option

**Freshman**

Fall	Credits Spring	Credits
AGEDS 110	1 AN S 114	2
ECON 101	3 AGRON 182	3
NREM 120 or 130	3 AN S 101	2
MATH 140	3 STAT 104	3
ENGL 150	3 ENGL 250	3
LIB 160	1 Humanities Elective	3
AGRON 181	3	
<b>17</b>		<b>16</b>

**Sophomore**

Fall	Credits Spring	Credits
AGEDS 215	1 ACCT 284	3
BIOL 101	3 Life Science Elective	3
AGRON 280	3 U.S. Diversity Elective	3
Intl Perspective Elective	3 AN S Elective	3

ECON 235	3 Elective	3
		<b>13</b>

**Junior**

Fall	Credits Spring	Credits
AN S Elective	3 AGEDS 311	3
AGEDS 315	3 ECON 230	3
CHEM 163	4 Ethics Elective	3
CHEM 163L	1 Elective	7
Elective	6	
		<b>17</b>

**Senior**

Fall	Credits Spring	Credits
AGEDS 450	3 AGEDS 451	3
AGEDS 327	3 Elective	11
Econ Elective - Select from Approved List	3	
Elective	3	
		<b>12</b>

**Total Credits: 120**

Multidisciplinary Option

**Freshman**

Fall	Credits Spring	Credits
ENGL 150	3 BIOL 101	3
AGEDS 110	1 ENGL 250	3
LIB 160	1 International Perspectives	3
MATH 140	3 Humanities Elective	3
Area Course	3 Area Course	3
Social Science Elective	3	
		<b>14</b>

**Sophomore**

Fall	Credits Spring	Credits
AGEDS 215	1 Free Elective	6
Free Elective	4 Area Course	3
Area Course	3 Area Course	3
Area Course	3 US Diversity Elective	3
Physical Science Elective	5	
		<b>16</b>

**Junior**

Fall	Credits Spring	Credits
AGEDS 315	3 Speech Elective	3
STAT 104	3 Area Course	3

Ethics Elective	3 Area Course	3
Area Course	3 Area Course	3
Free Elective	3 Free Elective	3

**15** **15**

**Senior**

Fall	Credits Spring	Credits
Free Elective	3 Free Elective	9
Life Science Elective	3 Area Course	3
Area Course	3 Area Course	3
Area Course	3	
Area Course	3	
		<b>15</b>

**Total Credits: 120**

\* A 2.00 grade point average is required.