

AGRICULTURAL SCIENCE, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Degree Requirements

For the Bachelor of Science degree in Agricultural Science, a minimum of 123 credits is required:

Requirement	Credits
General Education	45
Electives	6-26
Requirements for the Major	82-90

18-30 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 0-3 credits of GH courses; 0-3 credits of GHW courses; 9 credits of GN courses; 0-6 credits of GS courses; 9 credits of GWS courses.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44>).

Code	Title	Credits
Prescribed Courses		
AEE 360	Leadership Development for Small Groups	3
AEE 460	Foundations in Leadership Development	3
<i>Prescribed Courses: Require a grade of C or better</i>		
CAS 100	Effective Speech	3
ENGL 15	Rhetoric and Composition	3
Additional Courses		
AEE 311	Developing Youth Leadership through Organization and Program Structure	3
or AEE 465	Leadership Practices: Power, Influences, and Impact	
AEE 330W	Communication in Agricultural and Natural Resource Careers	3
or AEE 440	Communication Methods and Media	
Select 3 credits from the following:		3
CHEM 101	Introductory Chemistry	
CHEM 110	Chemical Principles I	
CHEM 130	Introduction to General, Organic, and Biochemistry	
Select 3-4 credits from the following:		3-4
BIOL 11	Introductory Biology I	
& BIOL 12	and Introductory Biology II	
BIOL 110	Biology: Basic Concepts and Biodiversity	
BISC 3	Environmental Science	
Select 3-4 credits in Crop Management ¹		3-4
Select 3 credits in any HORT except X95, X96		3
Select 3 credits in Agricultural Economics and Rural Sociology ²		3
Select 3 credits in International Agriculture from the following:		3
AEE 400	Global Agriculture Education	

CED 450	International Development, Renewable Resources, and the Environment	
INTAG 100N	Everyone Eats: Hunger, Food Security & Global Agriculture	
Any College of Agricultural Sciences international course		
Select 1-3 credits in Careers in Agriculture from the following:		1-3
AEE 100	Agricultural Education Orientation	
AG 100	Job Placement Skills and Strategies	
AG 113	Exploring Careers in Agriculture	
ANSC 290	Careers in Animal Agriculture	
ERM 151	Careers and Issues in Environmental Resource Management	
Select 3-4 credits in any ANSC except 291, X95, X96		3-4
Select 3 credits in Technology in Agriculture from the following:		3
AGECO 144	Principles and Practices of Organic Agriculture	
AGECO 457	Principles of Integrated Pest Management	
ANSC 207 & ANSC 208	Animal Products Technology and Animal Products Technology Laboratory	
ERM 210	Environmental Factors and Their Effect on Your Food Supply	
FDSC 200	Introductory Food Science	
PLANT 217	Landscape Soil and Water Management	
Select 6 credits in Natural Resources/Ecology from the following:		6
AGECO 122	Atmospheric Environment: Growing in the Wind	
AGECO 201	Introductory Agroecology	
EGEE 101	Energy and the Environment	
FOR 470	Watershed Management	
SOILS 71	Environmental Sustainability	
SOILS 101	Introductory Soil Science	
SOILS 412W	Soil Ecology	
WFS 209N	Wildlife and Fisheries Conservation	
Select 3 credits in Agricultural and Environmental Policy from the following:		3
AG 160	Introduction into Ethics and Issues in Agriculture	
AGECO 134N	Sustainable Agriculture Science and Policy	
CED 201	Introductory Environmental and Resource Economics	
FDSC 105	Food Facts and Fads	
<i>Additional Courses: Require a grade of C or better</i>		
ENGL 202C	Effective Writing: Technical Writing	3
or ENGL 202D	Effective Writing: Business Writing	
Supporting Courses and Related Areas		
Select 9 credits in Agriculture		9
<i>Supporting Courses and Related Areas Courses: Require a grade of C or better</i>		
Select 18-21 credits for College of Agricultural Sciences Minor		18-21

¹ Select any AGECO except X95 and X96, any AGRO except X95, X96, or any ENT except X95, X96.

² Select any AGBM except X95 and X96, any CED except X95, X96, or any RSOC.

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (<https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/>) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required and Inter-Domain courses do not meet this requirement.)

- **Quantification (GQ):** 6 credits
- **Writing and Speaking (GWS):** 9 credits

Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)

- **Arts (GA):** 3 credits
- **Health and Wellness (GHW):** 3 credits
- **Humanities (GH):** 3 credits
- **Social and Behavioral Sciences (GS):** 3 credits
- **Natural Sciences (GN):** 3 credits

Integrative Studies

- **Inter-Domain Courses (Inter-Domain):** 6 credits

Exploration

- **GN**, may be completed with Inter-Domain courses: 3 credits
- **GA, GH, GN, GS, Inter-Domain courses.** This may include 3 credits of World Language course work beyond the 12th credit level or the requirements for the student's degree program, whichever is higher: 6 credits

University Degree Requirements

First Year Engagement

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

Cultures Requirement

6 credits are required and may satisfy other requirements

- **United States Cultures:** 3 credits
- **International Cultures:** 3 credits

Writing Across the Curriculum

3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80>)). For more information, check the Suggested Academic Plan for your intended program.