

AGRICULTURAL AND EXTENSION EDUCATION, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Degree Requirements

For students seeking teacher certification, the Bachelor of Science degree in Agricultural and Extension Education, a minimum of 125 credits is required:

Requirement	Credits
General Education	45
Electives	0-1
Requirements for the Major	107-113

28 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 6 credits of GS courses; 9 credits of GN courses; 4 credits of GQ 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>).

Common Requirements for the Major (All Options)

Code	Title	Credits
Prescribed Courses		
AEE 100	Agricultural Education Orientation	3
AEE 311	Developing Youth Leadership through Organization and Program Structure	3
AEE 349	Shop Processes for Agricultural Educators	3
AEE 350	Teaching Methods for Agricultural and Environmental Laboratories	3
AEE 495	Internship	12
AGBM 101	Economic Principles of Agribusiness Decision Making	3
BIOL 110	Biology: Basic Concepts and Biodiversity	4
INTAG 100N	Everyone Eats: Hunger, Food Security & Global Agriculture	3
WFED 413	Vocational Education for Special-Needs Learners	3
WFED 414	Teaching Career and Technical Education Content to Diverse Learners	3
WFED 450	Cultural Diversity in the Workplace	3
<i>Prescribed Courses: Require a grade of C or better</i>		
AEE 295	Observation of Teaching in Agriculture and Environmental Science	3
AEE 313	School-Based Program Planning and Instructional Development	2
AEE 412	Methods of Teaching Agriculture and Environmental Science	4
AEE 413	Program Planning and Instructional Development	3-4
EDPSY 14	Learning and Instruction	3

EDTHP 115	Education in American Society	3
ENGL 202C	Effective Writing: Technical Writing	3
SOILS 101	Introductory Soil Science	3
STAT 200	Elementary Statistics	4

Additional Courses

Select 4 credits of the following:		4
BIOL 220W	Biology: Populations and Communities	
BIOL 230W	Biology: Molecules and Cells	
BIOL 240W	Biology: Function and Development of Organisms	
<i>Additional Courses: Require a grade of C or better</i>		
Select 3 credits from the following:		3
CAS 100	Effective Speech	
CAS 100A	Effective Speech	
CAS 100B	Effective Speech	
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 credits from the following:		3
ENGL 15	Rhetoric and Composition	
ENGL 30H	Honors Rhetoric and Composition	
ESL 15	ESL Composition for American Academic Communication II	

Requirements for the Option

Select an option		23-28
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Requirements for the Option

Environmental Science Option (28 Credits)

Code	Title	Credits
Prescribed Courses		
AGRO 28	Principles of Crop Management	3
ANSC 201	Animal Science	4
Supporting Courses and Related Areas		
Select 3 credits of W courses offered in the College		3
Select 3 credits in biological, physical ecosystems		3
Select 6 credits in environmental impact management		6
Select 6 credits in environmental learning		6
Select 3 credits in social, political, and legal aspects of environmental science		3

Production Option (23 credits)

Code	Title	Credits
Supporting Courses and Related Areas		
Select 3 credits of W courses offered in the College		3
Select 8 credits in agriculture		8
Select 6 credits in animal science		6
Select 6 credits in plant/soil science		6

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.