AGRICULTURAL SCIENCE, B.S.

Begin Campus: Any Penn State Campus
End Campus: University Park

Program Description
This major enables students to develop programs of study to serve their individual needs by assembling courses selected from various departments within the College of Agricultural Sciences. The student develops either a broad background in agriculture or a special program of study not currently offered within departments of the college. Students are expected to focus study on one or more disciplines of the agricultural sciences by selecting a minor from the approved list of minors offered by the College of Agricultural Sciences. The student, in consultation with an adviser, is given considerable flexibility for selecting courses to satisfy individual interests and aspirations.

Students can prepare themselves for careers in the following:
- Agricultural and natural resource related sales, and /or public relations
- Food, agricultural and natural resource commodity groups
- Agricultural finance
- Governmental and conservation agencies
- The Cooperative Extension Service
- Land use and appraisal
- International agriculture agencies

What is Agricultural Science?
The Agricultural Science major allows students to explore the many aspects of agriculture and the environment. Students are able to determine their interests in agriculture and take part in shaping their course work to help them gain the knowledge and skills needed to enter the workforce when they graduate.

You Might Like this Program If...
- You would like a major that allows you to tailor your coursework to fit your career goals, blending together many disciplines of the agricultural sciences to give you a wide skill set

Entrance to Major
In order to be eligible for entrance to this major, a student must:
1. attain at least a C (2.00) cumulative grade-point average for all courses taken at the University, and
2. have third-semester classification (http://www.registrar.psu.edu/registration/semester_classification.cfm).

READ SENATE POLICY 37-30: ENTRANCE TO AND CHANGES IN MAJOR PROGRAMS OF STUDY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/37-00-entrance-to-a-college-or-major)

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>6-26</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>82-90</td>
</tr>
</tbody>
</table>

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

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 (http://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.)
- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits

Knowledge Domains
- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits

Integrative Studies (may also complete a Knowledge Domain requirement)
- Inter-Domain or Approved Linked Courses: 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). For more information, check the Suggested Academic Plan for your intended program.

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 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44). For more information, check the Suggested Academic Plan for your intended program.

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2. Students enrolled in the Agricultural Science major will be able to describe and analyze leadership behaviors and skills.
3. Students enrolled in the Agricultural Science major will be able to identify a problem in a community, evaluate the situation based on leadership theory, and propose a solution to the situation.

**Academic Advising**

The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

**University Park**

**Chrystal Wheeler**
Academic Adviser
201 Armbury Building
University Park, PA 16802
814-865-0467
cw151@psu.edu

**Suggested Academic Plan**

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2019-20 academic year. To access previous years’ suggested academic plans, please visit the archive (http://bulletins.psu.edu/undergraduate/archive) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

**University Park Campus**

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

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<thead>
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<th>Credits</th>
<th>Fall</th>
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<td>3</td>
<td>ENGL 15, 30, or ESL 15††</td>
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<tr>
<td>3</td>
<td>General Education Course (GQ)††</td>
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<td>CHEM 101 or 110</td>
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<tr>
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<td>3-4 CAS 100, 100A, 100B, or 100C††</td>
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<td>AG 150</td>
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### Second Year

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<td>1-2</td>
<td>AGECO 144, 457, PLANT 217, ENT 457, ERM 210, FDSC 200, or ANSC 207 and ANSC 208 (Technology in Agriculture)</td>
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<tr>
<td>3</td>
<td>SOILS 412W, AGECO 122, EGE101, FOR 470, METEO 122, 427, SOILS 71, SOILS 101, or WFS 209 (Natural Resources/Ecology)</td>
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<tr>
<td>3</td>
<td>General Education Course (any ANSC course)</td>
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<td>3</td>
<td>College of Agricultural Sciences Minor Course</td>
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<tr>
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<td>College of Agricultural Sciences Minor Course</td>
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### Third Year

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<td>3</td>
<td>SOILS 412W, AGECO 122, EGE101, FOR 470, METEO 122, 427, SOILS 71, SOILS 101, or WFS 209 (Natural Resources/Ecology)</td>
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<tr>
<td>3</td>
<td>Horticulture Course (any HORT course)</td>
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<td>3</td>
<td>AEE 330 or 440</td>
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<td>3</td>
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### Fourth Year

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<tr>
<td>3</td>
<td>AEE 460</td>
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<tr>
<td>3</td>
<td>Crop Management Course (any AGECO, AGRO, or ENT course)</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>College of Agricultural Sciences Minor Course</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
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<td>3</td>
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</tr>
<tr>
<td>3</td>
<td>Ag Economics &amp; Rural Sociology Course (any AGBM, CED, or RSOC course)</td>
<td>3</td>
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<tr>
<td>3</td>
<td>Agriculture Course (any College of Agricultural Sciences course)</td>
<td>3</td>
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<tr>
<td>3</td>
<td>Elective</td>
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</tbody>
</table>

**General Education Course**

3 Agriculture Course (any College of Agricultural Sciences course)

**Course (GQ - MATH 21 recommended)**

‡† College of Agricultural Sciences course

‡‡ College of Agricultural Sciences Minor Course

†† College of Agricultural Sciences course
Agricultural Science, B.S.

<table>
<thead>
<tr>
<th>General Education Course (GHW)</th>
<th>1.5 General Education Course (GQ)</th>
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</thead>
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<tr>
<td>Total Credits 123-125</td>
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</table>

* Course requires a grade of C or better for the major
‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
† Course satisfies General Education and degree requirement

**University Requirements and General Education Notes:**

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

**Advising Notes:**

- Students must complete a minor in the College of Agricultural Sciences (18-21 credits).
- Work with your academic adviser in the development of your plan as some courses are not taught every semester.

**Commonwealth Campuses**

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

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<td>3 General Education Course (GQ)†‡</td>
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<tr>
<td>General Education Course (GQ - MATH 21 recommended)†‡</td>
<td>3 CHEM 101 or 110</td>
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<tr>
<td>BIOL 110,11 and 12, or BISC 3</td>
<td>3-4 CAS 100, 100A, 100B, or 100C†‡</td>
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<td>3 AEE 360</td>
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<td>3 Horticulture Course (any HORT course)</td>
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<tr>
<td>ANSC 290, AEE 100, ERM 151, AG 100, or SC 101 (Careers in Agriculture)</td>
<td>1 Animal Science Course (any ANSC course)</td>
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<tr>
<td>College of Agricultural Sciences Minor Course*</td>
<td>3 College of Agricultural Sciences Minor Course*</td>
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<tbody>
<tr>
<td>AEE 460</td>
<td>3 AG 160, 134, CED 201, FDSC 105, or STS 105 (Ag and Environmental Policy)</td>
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<tr>
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<td>3 Crop Management Course (any AGECO, AGRO, or ENT course)</td>
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<td>Ag Economics &amp; Rural Sociology Course (any AGBM, CED, or RSOC course)</td>
<td>3 Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
General Education Course (GHW) 1.5

16.5

Total Credits 121-122

* Course requires a grade of C or better for the major
‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

Advising Notes:

• Students must complete a minor in the College of Agricultural Sciences (18-21 credits).
• Work with your academic adviser in the development of your plan as some courses are not taught every semester.

Career Paths

Faculty and professional academic advisers in the Agricultural Science program support and serve students in career development and preparation, including career decision-making, tailoring the AG SC major to fit career goals, internship and job search strategies, interview preparation, and preparing for employment or graduate school.

Careers

Students have the opportunity to explore career opportunities through internships relevant to the Agricultural Science major. These internships often lead to career opportunities with the same companies that provided the internship. Students’ career options are very diverse, often based on their selection of which minor to explore in conjunction with their major. Many students enter careers directly related to their minor selection.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE AGRICULTURAL SCIENCE PROGRAM (http://aese.psu.edu/majors/agscience/careers)

Contact

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