

Bachelor of Science in Agriculture Major: Sustainable Agriculture

Students pursuing the major will not only learn about agricultural practice but will graduate with valuable transferable skills in problem solving, written and verbal communication, management, advocacy, sustainable sourcing and marketing, entrepreneurship, big-picture and detail-oriented systems-thinking, teamwork, and leadership; skills that provide an edge in any career. Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Major requirement: ENGLISH 1110 * (or <i>Student Choice – see below</i>)	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1130, 1148 or 1150 * (or <i>Student Choice – see below</i>)	4-5
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	Student Choice	3
Theme: Citizenship for a Diverse & Just World^a	Student Choice	4-6
Theme: Student Choice^a	Student Choice	4-6
GE Reflection	GENED 4001	1
Credit Hours:		33-38

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student chooses an alternative course in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & HCS 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 & HCS 4191.01	2
Minor ^b	Student Choice	12-15
Credit Hours:		23-26

General Education	33-38
Degree Requirements & Minor	23-26
Major	53-54
Open Electives	3-12
Minimum Total Credit Hours	121

Major Coursework		
Course	Title	Hours
RURLSOC 1500	Introduction to Rural Sociology	3
HCS 2201/2204 & 2205 -or- HCS 2202	Ecology of Managed Plant Systems -or- Form and Function in Cultivated Plants	4
Data Analysis	Select from: HCS 2260, ANIMSCI 2260, ENR 2000, AEDECON 2005, or COMLTR 3537	3
HCS 2307	Farm-Based Practical Experience (2 cr., repeated)	4
ENR/AEDECON 2500	Introduction to Sustainability	3
ENR 3000 & 3001	Soil Science & Soil Science Laboratory	4
ENR 3100	Introduction to Sustainable Agriculture	3
AEDECON 3101 -or-	Principles of Agribusiness Management -or-	3
AEDECON 4100	Self-Employment and Entrepreneurship in the Food, Agriculture, and Resource Sectors	
ENR 3500	Community, Environment & Development	3
ANIMSCI 3600 -or-	Global Food and Agriculture	3
AEDECON 2580 -or-	Feast or Famine: The Global Business of Food	
AEDECON 4597.01	Food, Population, and the Environment	
ENR 5600	Sustainable Agriculture and Food Systems	3
HCS 5602	Ecology of Agriculture	3
PLNTPTH 3001 -or-	General Plant Pathology -or-	3
HCS 5422 -or-	Biology & Mgmt. of Weeds & Invasive Plants -or-	
ENTMLGY 4600 & 4601	Introduction to Insect Science (1) & General Insect Pest Management (2)	
AEDECON/ENR 4567	Assessing Sustainability: Project Experience (Capstone)	3
Select 8-9 hours in Production courses^c:		
AGSYSMT 3550	Animal and Rural Waste Management	2
ANIMSCI 2200.01	Introductory Animal Sciences	3
ANIMSCI 2200.02	Introductory Animal Sciences Lab	1
ANIMSCI 3100	Animal Growth and Development	3
ANIMSCI 3130	Principles of Animal Nutrition	3
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI/HCS 5420	Environmental Impacts of Crop-Livestock Systems	3
ENTMLGY 4601	General Insect Pest Management (if not selected above)	2
FDSCTE 2400	Introduction to Food Processing	3
FDSCTE 4410	Hazard Analysis and Critical Control Points	2
HCS 2201/2204 & 2205	Ecology of Managed Plant Systems (if not selected above)	4
HCS 2202	Form and Function in Cultivated Plants (if not selected above)	4
HCS 2305	Organic Gardening	1
HCS 3100	Introduction to Agronomy	3
HCS 3220	Crop Origins and Diversity	2
HCS 3310	Crop Responses to the Environment	3
HCS 5422	Biology & Management of Weeds & Invasive Plants (if not selected above)	3
HCS 5450	Vegetable Crop Production and Physiology	3
PLNTPTH 3001	General Plant Pathology (if not selected above)	3
PLNTPTH 5140	Diseases of Field Crops	2
Credit Hours:		53-54

^a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ✦ symbol.

^b Students in this program must complete a minor. A minor should be declared by the time 60 credit hours are accumulated. A minor in Sustainable Agriculture is not permitted.

^c Review prerequisites.

Policies and General Requirements for Degree

- A minimum of **121** total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students of CFAES must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**4-Year Course Plan
B.S. in Agriculture
Major: Sustainable Agriculture**

This model plan of study is presented as a suggested path to graduate in four years. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements for their catalog year and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet should not be used in isolation. To graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement -Complete at least one science -Complete English 1110.01	FAES 1100	College Survey	.5	GE Lit, Vis and Perf Arts		3
	HCS 1100	Dept Survey	.5	GE WIL: ENGLISH 1110	First-Year English Comp.	3
	MATH 1148 ^a	College Algebra	4	Data Analysis	See options	3
	HCS 2307 (1 st)	Farm-Based Prac. Exp.	2	CHEM 1210	General Chemistry I	5
	GE SBS: AEDECON 2001	Prin. of Food & Res. Econ.	3	GENED 1201	GE Launch Seminar	1
	Minor Course		3			
	Production Course/Elective		3			
Hours: 30		Total:	15		Total:	15
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Declare minor -Complete three science courses by the end of this year -Begin to consider an internship location	ENR 3000 & 3001	Intro to Soil Science & Lab	4	GE Nat Sci: BIOLOGY 1113	Biological Science: Energy Transfer & Development	4
	RURLSOC 1500	Intro to Rural Sociology	3	GE R.E. & G. Diversity		3
	GE Hist. & Cultural Studies		3	Elective		3
	ENR 3100	Intro to Sustainable Ag.	3	HCS 2204 & 2205 ^a	Ecology of Managed Plant Systems	4
	HCS 2307 (2 nd)	Farm-Based Prac. Exp.	2	Production Course/Elective		2
Hours: 61		Total:	15		Total:	16
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate -Complete internship by end of the summer -Half of major hours to be completed by the end of the year	ENTMLGY 4600 & 4601 ^a	Insect Science & General Insect Pest Mgt.	3	AEDECON 2580 ^a	Feast or Famine: Global Business of Food	3
	GE Theme Choice #1 ^b		3	AEDECON 4100 ^a	Self-employment and Entrepreneurship	3
	GE Citizenship #1 ^b		3	GE Citizenship #2 ^b		3
	FAES 3191 & HCS 4191.01	Internship	2	Production Course/Elective		3-4
	ENR/AEDECON 2500	Intro to Sustainability	3	ENR 3500	Community, Environment & Development	3
	Elective		2			
Hours: 92		Total:	16		Total:	15
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements -Meet with a Career Services Advisor	ENR 5600	Sustainable Agriculture & Food Systems	3	AEDECON/ENR 4567	Assessing Sustainability (Capstone)	3
	GE Theme Choice #2 ^b		3	HCS 5602	Ecology of Agriculture	3
	Minor Course		3-4	Minor Course		3-4
	Minor Course		3-4	Production Course/Elective		3-4
	GENED 4001	GE Reflection	1	AGRCOMM 3130	Oral Expression	3
		Total:	15		Total:	15

Total credit hours for Bachelor of Science Degree: 121

^a One possible course from approved GE list or major requirement that has multiple options, as outlined in corresponding Degree Requirements document.

^b Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ❖ symbol.

4-Year Completion Checklist

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
<input type="checkbox"/> Complete Math requirement	FAES 1100					
	HCS 1100					
<input type="checkbox"/> Complete at least one science						
<input type="checkbox"/> Complete English 1110.01						
Hours: _____	Notes:			Notes:		
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
<input type="checkbox"/> Declare minor						
<input type="checkbox"/> Complete three science courses by the end of this year						
<input type="checkbox"/> Begin to consider an internship location						
Hours: _____	Notes:			Notes:		
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
<input type="checkbox"/> Apply to graduate						
<input type="checkbox"/> Complete internship by end of the summer						
<input type="checkbox"/> Half of major hours to be completed by the end of the year						
Hours: _____	Notes:			Notes:		
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
<input type="checkbox"/> Meet graduation requirements						
<input type="checkbox"/> Meet with a Career Services Advisor						
Hours: _____	Notes:			Notes:		

Total credit hours for Bachelor of Science Degree: 121
