

Bachelor of Science in Agriculture Major: Sustainable Plant Systems Specialization: Agroecology

This specialization focuses on understanding and applying ecological principles in crop production to integrate natural biological cycles and controls, make efficient use of resources, enhance environmental quality, and increase biodiversity. Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requi		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1130, 1148, 1150, 1151, or 1156 * (or Student Choice – see below)	4-5
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major requirement: BIOLOGY 1113 * (or Student Choice – see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice – see below)	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 makes an alternative selection in this GE category, **they must also complete this course**.

B.S. in Agriculture Degree Requirements					
Requirement Course Options Ho					
College & Department Survey	FAES 1100 (0.5) & HCS 1100 (0.5)	1			
Oral Expression AGRCOMM 3130 or COMM 2110					
Additional Science	CHEM 1110, 1210, or 1220	5			
Internship	FAES 3191 & HCS 4191.01	2			
Minor Equiv. ^b	See pg. 2	15-18			
	Credit Hours:	26-29			

121	Minimum Total Credit Hours
0-9	Open Electives
41-42	Major
12	Major Supporting Courses (pg. 2)
26-29	Degree Requirements
33-38	General Education

^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.

Major Coursework		
Course	Title	Hours
HCS 2202	Form and Function in Cultivated Plants	4
HCS 2204	Ecology of Managed Plant Systems *	3
HCS 2205	Ecology of Managed Plant Systems Lab	1
HCS 2260	Data Analysis and Interpretation for Decision Making	3
HCS 3100 -or-	Intro to Agronomy	3
HCS 3200	Intro to Horticulture	
HCS 3220	Crop Origins and Diversity	2
HCS 3310	Crop Responses to the Environment	3
HCS 3320 -or-	Plant Propagation	3
HCS 3420	Seed Science	
HCS 5422	Biology & Mgmt. of Weeds and Invasive Plants	3
ENR 3000	Soil Science	3
ENR 3001	Soil Science Laboratory	1
Select one production c		3
HCS 5411	Grain, Oilseed, and Fiber Crops	
HCS 5412	Agroecology of Grasslands and Prairies	
HCS 5450	Veg Crop Production & Physiology	
HCS 5460	Fruit Crop Physiology & Production	
Select one capstone co		3
HCS 5100	Advanced Cropping Systems	
HCS 5200	Advanced Horticultural Principles and Practices	
HCS 5602	The Ecology of Agriculture	
Major Electives: Selec	t 6-7 credit hours from:	
HCS 2307	Sustainable Agriculture Practical Experience	2
HCS 3380	Latino Workforce in Land Based Industry	2
HCS 3488.01	Professional Development in HCS	1-3
HCS 3521	Greenhouse Systems and Management	2
HCS 3522	Sustainable Irrigation	3
HCS/AGSYSMT 3585	Digital Agriculture ❖	3
HCS/AGSYSMT 3586	Digital Agriculture Laboratory ❖	1
HCS 4193	Individual Studies	1-3
HCS 4300	Hydroponic Crop Production	2
HCS 4301	Hydroponic Crop Production Lab	1
HCS 4520	Medicinal Plants	2
HCS 4998	Undergraduate Research	1-6
HCS 4999	Research with Distinction	1-6
HCS 4999H	Honors Research with Distinction	1-6
HCS 5097.0104 & 5797.0104	Study Abroad Pre-Departure & Study Abroad	4
HCS 5306	Sustainable Vegetable Production Practicum	3
HCS 5325	-	3
HCS 5325	Plant Genetics Environmental Impacts of Crop. Livestock Systems	 3
	Environmental Impacts of Crop-Livestock Systems	
HCS 5621	Physiology of Cultivated Plants	3
HCS 5622 d	Biochemical Processes in Cultivated Plants	3
HCS 5625 d	Applied Plant Biotechnology	2
HCS 5825 ^d	Plant Breeding	2
HCS 5887	Introduction to Experimental Design	3

b Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c Only up to 6 credits of any combination of 4193, 4998, 4999, or 4999H can count towards major electives.

d Review prerequisites.

Major Supporting Coursework					
Course	Hours				
BIOLOGY 1114	Biological Sciences: Form, Function, Diversity, and Ecology	4			
EEOB 3310.01 or .02	Evolution	4			
EEOB 3410	Ecology	4			
	Credit Hours:	12			

ENR 4260 Soil Resource Management ENR 4285 Watershed Hydrology ENR 5260 Soil Landscapes: Morphology, Genesis & Classification ENR 5263 Biology of Soil Ecosystems ENR 5268 Soils and Climate Change ENR 5270 Soil Fertility ENR 5279 Urban Soils and Ecosystem Services Group B: Biotic Interactions in Agroecosystems ANIMSCI 3400 Management Intensive Grazing ENTMLGY 2200 Beekeeping ENTMLGY 4600 Introduction to Insect Science ENTMLGY 4601 General Insect Pest Management ENTMLGY 5500 Biological Control of Arthropod Pests ENTMLGY 5500 Biological Control of Arthropod Pests ENTMLGY 5600 Integrated Pest Management PLNTPTH 3001 General Plant Pathology PLNTPTH 3002 General Plant Pathology Lab Ecology and Mgt of Pathogens and Insects Affecting Trees in Forest & Urban Env. PLNTPTH 5110 Diseases of Field Crops PLNTPTH 5150 Diseases of Vegetable and Fruit Crops PLNTPTH 5603 Plant Disease Management Group C1: Population and Community Ecology AGSYSMT 5560 UAS and Remote Sensing in Agriculture EEOB 4410 Conservation Biology EEOB 4430 Ecological Methods I EEOB 5450 Population Ecology EEOB 5470 Community and Ecosystem Ecology ENR 4320 d Sustainable Forest Products ENR 5274 Ecosystems Simulation Group C2: Human Ecology and Global Perspectives AEDECON 4532 Food Security and Globalization ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- Enthologory C:- Ethnobotany C:- HCS/AGSYSMT 3586 Digital Agriculture Agriculture								
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Group C2: Human Ecology and Global Perspectives AEDECON 4532 Food Security and Globalization ANIMSCI 3600 Global Food and Agriculture EEOB 4240 -or- ANTHRO 5614 -or- Ethnobotany HCS/AGSYSMT 3585 Digital Agriculture HCS/AGSYSMT 3586 Digital Agriculture Laboratory Total Control of Plants and People For Ethnobotany	ENR 4320 ^d	Sustainable Forest Products	3					
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ANIMSCI 3600 Global Food and Agriculture GEOB 4240 -or-ANTHRO 5614 Ecology & Evolution of Plants and People -or-Ethnobotany GEORGYSMT 3585 Digital Agriculture & GEORGYSMT 3586 Digital Agriculture Laboratory & GEORGYSMT 3586 Digital Agriculture & GEORGYSMT 3586 DIGITAL &	Group C2: Human Ecol	ogy and Global Perspectives						
EEOB 4240 -or- ANTHRO 5614	AEDECON 4532	Food Security and Globalization	3					
ANTHRO 5614 -or- Ethnobotany HCS/AGSYSMT 3585 Digital Agriculture HCS/AGSYSMT 3586 Digital Agriculture Laboratory Digital Agriculture Laboratory	ANIMSCI 3600							
HCS/AGSYSMT 3586 Digital Agriculture Laboratory ❖			3					
	HCS/AGSYSMT 3585	Digital Agriculture ❖	3					
ENR 5600 ^d Sustainable Agriculture and Food Systems	HCS/AGSYSMT 3586	Digital Agriculture Laboratory ❖	1					
	ENR 5600 ^d	Sustainable Agriculture and Food Systems	3					
	GEOG 3900	Global Climate Change	3					
GEOG 5900 Weather, Climate, & Global Warming	GEOG 5900	Weather, Climate, & Global Warming	3					

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 bours of transfer and/or EM credit in the minor of the minor. Maximum of the minor of the minor. No more than 3



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

Specialization: Agroecology

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	Aut	tumn Semester		Spr	ing Semester	
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement	FAES 1100	College Survey	.5	CHEM 1110, 1210, or 1220	General Chemistry	5
-Complete at least one science -Complete GE WIL	HCS 1100	Dept Survey	.5	GE Hist. & Cultural Studies		3
Complete CL VIII	GE Math	See options	4-5	GE WIL		3
	HCS 2204 ❖ ^b & 2205	Ecology of Managed Plant Systems ❖ & Lab	4	HCS 2202	Form and Function in Cultivated Plants	4
	GE Lit, Vis and Perf Arts		3	GENED 1201	GE Launch Seminar	1
	Minor Equiv. Course		2-3			
Hours: 31						
mours. or		Total:	15		Total:	16
Sophomore Year	Aut	tumn Semester		Spr	ing Semester	<u>. </u>
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete three science courses by the end of this year	HCS 3100 or 3200	Intro to Agronomy or Intro to Horticulture	3	EEOB 3410	Ecology	4
-Begin to consider an internship location	GE Nat Sci: BIOLOGY 1113	Energy Transfer and Development	4	HCS 2260	Data Analysis	3
	EEOB 3310.01 ^a	Evolution	4	AGRCOMM 3130	Oral Expression	3
	GE R.E. & G. Diversity		3	GE SBS: AEDECON 2001	Prin. of Food & Res. Econ.	3
	Minor Equiv. Course		2-3	Open Elective		2
Hours: 62						
		Total:	16		Total:	15
Junior Year	Autumn Semester Spring Semester		ing Semester			
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate -Complete internship by end of the summer	GE Theme Choice #1 b		3-4	Minor Equiv. Course		2-3
	Major Elective		2-3	HCS 3320 a (or elective)	Plant Propagation	3
-Half of major hours to be	GE Citizenship #1 b		3-4	HCS 3310	Crop Responses to Environ.	3
completed by the end of the year	ENR 3000 & 3001		4	GE Citizenship #2 b (or Open Elective)		3
	BIOLOGY 1114		4	HCS 3220	Crop Origins and Diversity	2
				Open Elective		1
Hours: 92		Total:	16		Total:	14
Summer					onduct Internship (Enroll in FAE	
Senior Year	Aut	tumn Semester		L	ing Semester	.0 0101)
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements	HCS 4191		2	HCS Capstone Course	See options	3
-Meet with a Career Services	HCS Production Course	Internship See options	3	Major Elective	See options	3
Advisor		ł		······		3
	HCS 5422 HCS 3420 ^a (or elective)	Biology & Mgmt of Weeds	3	Minor Equiv. Course (Ones)		3
	, ,		3	Minor Equiv. Course/Open Elective		ļ
	Minor Equiv. Course/Open Elective		2-3	GE Theme Choice #2 b (or Open Elective)		3
	GENED 4001	GE Reflection	1	1		
						!
		Total:	15		Total:	15

^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

Fresh	Freshman Year Autumn Semester Spring Semester						
Bench	marks	Course/Requirement		✓	Course/Requirement		✓
	Complete Math	FAES 1100					
	requirement	HCS 1100					
	Complete at least one						
	science						
	Complete GE WIL						
	Complete GE WIE						
Hours	:						
		Notes:	mn Semester		Notes:	nu Compoter	
	phomore Year		iiiii Seinestei	√		ng Semester	√
Be	nchmarks 	Course/Requirement		v	Course/Requirement		v
	Complete three						
	science courses by the end of this year						
	trie eriu or triis year						
	Begin to consider an						
	internship location	Notes:	i		Notes:	<u>i</u>	
Hours	: nior Year	Auto	mn Semester		Spring Semester		
	nchmarks	Course/Requirement	iiii ociiicatei	-	Course/Requirement	ing ocinicater	√
		- Course, requirement		······································	- Course, Requirement		······································
	Apply to graduate						
	Complete internship						
	by end of the summer						
	Half of major hours to						
	be completed by the end of the year						
		Notes:	<u>.</u>		Notes:		
Hours	<i>:</i>						
Sei	nior Year	Autu	mn Semester		Spri	ng Semester	
Be	nchmarks	Course/Requirement		✓	Course/Requirement		✓
	Meet graduation						
	requirements						
	Meet with a Career						
	Services Advisor						
Hours							
Hours	·	Notes:			Notes:		
					Total credit hours for	Bachelor of Science Degree:	121