

HORTICULTURAL SCIENCE MAJOR (A.S.) INTERESTED IN SUSTAINABLE PLANT SYSTEMS MAJOR – AGROECOLOGY SPECIALIZATION (B.S.)

This model plan of study is presented as a suggested path to graduate in 4 years with an Associate of Science Degree with a major in Horticultural Science and a Bachelor of Science Degree in Agriculture with a major in Sustainable Plant Systems and specialization in Agroecology. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements 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. In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year (ATI)		Α	utumn Semester		Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
MATH 1148 should be completed by the end of this year.	AEDECON	2001	Principles of Food and Resource Economics ^a	3	CHEM	1110 or 1210	Elementary Chemistry ^a General Chemistry I	5
ENGLISH 1110 should be completed	ENGLISH	1110.01	First-Year English Composition	3	GENED	1201	GE Launch Seminar	1
by the end of this year.	GENSTDS	1201.01T	College Orientation	.5	HCS	2202	Form and Function in Cultivated Plants	4
CHEM 1110 should be completed by the end of this year.	HORTTEC	1201T	Exploring Horticulture	.5			GE Hist & Cultural Studies	3
ŕ	MATH	1148	College Algebra ^a	4			GE Lit, Vis and Perf Arts	3
Begin to consider study abroad programs.			Electives	3				
p9			Total	: 14			Total:	16
Sophomore Year (ATI)		Α	utumn Semester	•	Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Begin to consider an internship location. (Internships are not	BIOLOGY	1113.01	Energy Transfer and Development ^a	4-5	AGRCOMM	3130	Oral Expression in Agriculture ^a	3
required for A.S. Degree.) Apply to graduate from ATI at least	CRPSOIL	2300T	Intro to Soil Science	3	BIOLOGY	1114.01	Bio Sci: Form, Function, Diversity and Ecology	4
one semester before the semester of your graduation.	CRPSOIL	2301T	Intro to Soil Science Lab	1	HCS	2204	Ecology of Managed Plant Systems �	3
Maintain at least a 2.0 cumulative GPA.			Electives	6	HCS	2205	Ecology of Managed Plant Systems Lab	1
Graduate with Associate of Science Degree.							GE R. E. & G. Diversity	3
_ 0g. 00:							Electives	2
			Total	14-15			Total:	16
	1				Total credit ho	urs for Ass	ociate of Science Degree:	60-61
Junior Year (Columbus)		Α	utumn Semester		Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Internship should be completed by	EEOB	3310.01	Evolution	4	EEOB	3410	Ecology	4
end of this summer.			Data Analysis	3	HCS	3220		2
	HCS	2260	Data / trialy 515	J		0220	Crop Origins and Diversity	•
Half of minor should be completed by the end of the year.		2260 3100 or 3200	Data / Malysis	3	HCS	3310	Crop Origins and Diversity Crop Responses to Environ.	3
Half of minor should be completed by		3100 or	GE Theme Choice #1 ^b					3
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at		3100 or	·	3	HCS	3310 3320 or	Crop Responses to Environ. Plant Propagation	
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the		3100 or	GE Theme Choice #1 ^b Major Elective	3 3-4	HCS	3310 3320 or	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent	3
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation.		3100 or	GE Theme Choice #1 ^b Major Elective	3 3-4 2-3	HCS	3310 3320 or 3420	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent	3 2-3 14-15
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the		3100 or 3200	GE Theme Choice #1 ^b Major Elective	3 3-4 2-3	HCS	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total:	3 2-3 14-15
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer	HCS	3100 or 3200	GE Theme Choice #1 b Major Elective Total	3 3-4 2-3 : 15-17	HCS	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: nduct Internship (Enroll in FAE	3 2-3 14-15
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the	HCS	3100 or 3200	GE Theme Choice #1 b Major Elective Total	3 3-4 2-3 : 15-17	HCS HCS	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: nduct Internship (Enroll in FAE	3 2-3 14-15 S 3191)
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the major, minor, and cumulative.	HCS	3100 or 3200 A	GE Theme Choice #1 b Major Elective Total utumn Semester Course Name	3 3-4 2-3 : 15-17 Hours	HCS HCS Department	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: nduct Internship (Enroll in FAE	3 2-3 14-15 S 3191)
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the	HCS Department GENED	3100 or 3200 ——————————————————————————————————	GE Theme Choice #1 b Major Elective Total utumn Semester Course Name GE Reflection	3 3-4 2-3 : 15-17 Hours	HCS HCS Department	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: nduct Internship (Enroll in FAE ring Semester Course Name Capstone Course GE Theme Choice #2	3 2-3 14-15 S 3191) Hours 3
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the major, minor, and cumulative. Graduate with Bachelor of Science	HCS Department GENED HCS	3100 or 3200 ——————————————————————————————————	GE Theme Choice #1 b Major Elective Total utumn Semester Course Name GE Reflection Internship	3 3-4 2-3 : 15-17 Hours 1 2	HCS HCS Department	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: nduct Internship (Enroll in FAE ring Semester Course Name Capstone Course GE Theme Choice #2 (or Open Elective) GE Citizenship #2 b	3 2-3 14-15 S 3191) Hours 3 3
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the major, minor, and cumulative. Graduate with Bachelor of Science	Department GENED HCS HCS	3100 or 3200 ——————————————————————————————————	GE Theme Choice #1 b Major Elective Total utumn Semester Course Name GE Reflection Internship Biology and Mgmt. of Weeds	3 3-4 2-3 15-17 Hours 1 2 3	HCS HCS Department	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: Induct Internship (Enroll in FAE ring Semester Course Name Capstone Course GE Theme Choice #2 (or Open Elective) GE Citizenship #2 ^b (or open elective)	3 2-3 14-15 S 3191) Hours 3 3
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the major, minor, and cumulative. Graduate with Bachelor of Science	Department GENED HCS HCS	3100 or 3200 ——————————————————————————————————	GE Theme Choice #1 b Major Elective Total utumn Semester Course Name GE Reflection Internship Biology and Mgmt. of Weeds Production Course	3 3-4 2-3 : 15-17 Hours 1 2 3 3	HCS HCS Department	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: Induct Internship (Enroll in FAE ring Semester Course Name Capstone Course GE Theme Choice #2 (or Open Elective) GE Citizenship #2 b (or open elective) Major Elective	3 2-3 14-15 S 3191) Hours 3 3 3
Half of minor should be completed by the end of the year. Apply to graduate from Columbus at least three semesters before the semester of your graduation. Summer Senior Year (Columbus) Benchmarks Maintain at least a 2.0 GPA in the major, minor, and cumulative. Graduate with Bachelor of Science	Department GENED HCS HCS	3100 or 3200 ——————————————————————————————————	GE Theme Choice #1 b Major Elective Total utumn Semester Course Name GE Reflection Internship Biology and Mgmt. of Weeds Production Course GE Citizenship #1 b	3 3-4 2-3 : 15-17 Hours 1 2 3 3 3 3	HCS HCS Department	3310 3320 or 3420 ————————————————————————————————————	Crop Responses to Environ. Plant Propagation Seed Science Minor Equivalent Total: Induct Internship (Enroll in FAE ring Semester Course Name Capstone Course GE Theme Choice #2 (or Open Elective) GE Citizenship #2 b (or open elective) Major Elective	3 2-3 14-15 S 3191) Hours 3 3 3

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

Total credit hours for Bachelor of Science Degree:

121

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.



HORTICULTURAL SCIENCE MAJOR (A.S.) INTERESTED IN SUSTAINABLE PLANT SYSTEMS MAJOR - AGROECOLOGY SPECIALIZATION (B.S.)

This advising sheet is for Ohio State ATI students that wish to earn both an Associate of Science (A.S.) Degree with a major in Horticultural Science and a Bachelor of Science (B.S.) Degree with a major in Sustainable Plant Systems and specialization in Agroecology. The tables below outline the complete degree requirements for the B.S. in Agriculture with a major in Sustainable Plant Systems and specialization in Agroecology. The <u>underlined</u> courses are those that also fulfill a requirement for the A.S. Horticultural Science major. These courses can count toward both degree programs simultaneously.

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

Table 1. Degree Requirements			
Subject	Course Options	Hours	✓
GE Launch Seminar	GENED 1201	1	
Writing and Information Literacy	ENGLISH 1110	3	
Mathematical & Quantitative Reasoning/Data Analysis	MATH 1148, 1130, 1150, 1151, or 1156	4-5	
Literary, Visual and Performing Arts	Student Choice	3	
Historical & Cultural Studies	Student Choice	3	
Natural Science	BIOLOGY 1113.01	4	
Social & Behavioral Sciences	<u>AEDECON 2001</u> or ECON 2001	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	
Survey Courses	GENSTDS 1201.01T* OR FAES 1100 & HORTTEC 1201T* OR HCS 1100	.5 .5	
Oral Expression	AGRCOMM 3130 or COMM 2110	3	
Additional Science	CHEM 1110 or 1210 or 1220	5	
Internship	FAES 3191 and HCS 4191.01 or HORTTEC 2191.21T* or 2191.22T*	2	
Major	See Table 2.	41-42	
Major Supporting	See Table 3.	12	
Minor Equivalent ^b	See Table 4.	15-18	
Electives	Consult advisor for selection.	0-9	
	Minimum Total Credit Hours	121	

^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.

Note: A capital **OR** separates a pair of *equivalent* courses, a lowercase **or** separates a choice between *different* courses that fulfill the same requirement.

Additional Bachelor's Degree Requirements:

- A 2.00 cumulative CPHR is required as well as a 2.00 CPHR in the major and minor coursework.
- Students must complete a minimum of 30 credit hours at The Ohio State University with at least 12 in the department in Columbus offering the major.
- 3. Applications to graduate must be submitted at least three semesters in advance.

Table 2. Major Requirements		
Course(s)	Hours	✓
CRPSOIL 2300T* Intro. to Soil Science OR ENR 3000 Soil Science	3	
CRPSOIL 2301T* Intro to Soil Science Lab OR ENR 3001 Soil Science Lab	1	
HCS 2202 Form and Function in Cultivated Plants	4	
HCS 2201 Ecology of Managed Plant Systems OR HCS 2204 ❖ and HCS 2205 Ecology of Managed Plant Systems and Lab	4	
HCS 2260 Data Analysis and Interpretation for Decision Making	3	
HCS 3100 Introduction to Agronomy or HCS 3200 Introduction to Horticulture	3	
HCS 3220 Crop Origins and Diversity	2	
HCS 3310 Crop Responses to the Environment	3	
HCS 3320 Plant Propagation OR HORTTEC 2740T* Propagation of Nursery Plants or HCS 3420 Seed Science	3	
HCS 5422 Biology & Mgmt. of Weeds and Invasive Plants	3	
Select ONE Production Course from the following: HCS 5411 Grain, Oilseed, and Fiber Crops HCS 5412 Agroecology of Grasslands and Prairies HCS 5450 Veg. Crop Production and Physiology HCS 5460 Fruit Crop Physiology and Production	3	
Select ONE Capstone Course from the following: HCS 5100 Advanced Cropping Systems HCS 5200 Advanced Horticultural Principles and Practices HCS 5602 The Ecology of Agriculture	3	
Additional Electives to Complete Specialization: See approved list on the CFAES Majors website under SPS	6-7	
Total Major Credit Hours	41-42	

Table 3. Major Supporting Coursework		
Course(s)	Hours	✓
BIOLOGY 1114.01 Bio Sci: Form, Function, Diversity & Ecology	4	
EEOB 3310.01 or .02 Evolution	4	
EEOB 3410 Ecology	4	
Total Major Supporting Coursework Credit Hours	12	

Table 4. Minor Equivalent			
Course(s)	Hours	✓	
Choose courses in either of the groups below Group A: Soil Ecology and Management Group B: Biotic Interactions in Agroecosystems Group C1: Population and Community Ecology Group C2: Human Ecology and Global Perspectives See approved lists on the CFAES Majors website under SPS	15-18		
Total Minor Equivalent Credit Hours	15-18		

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

^{*} courses are only offered at the Wooster (ATI) Campus