

HORTICULTURAL SCIENCE MAJOR (A.S.) INTERESTED IN SUSTAINABLE PLANT SYSTEMS MAJOR – TURFGRASS SCIENCE 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 Turfgrass Science. 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)	Autumn 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 1110.01 should be completed by the end of this year.	ENGLISH	1110.01	First-Year English Composition	3	GENED	1201	GE Launch Seminar	1
CHEM 1110 should be completed by the end of this year.	GENSTDS	1201.01T	College Orientation	.5	HCS	2202	Form & Function of Cultivated Plants	4
Begin to consider study abroad programs.	HORTTEC	1201T	Exploring Horticulture	.5	_____	_____	GE Hist & Cultural Studies	3
	MATH	1148	College Algebra ^a	4	_____	_____	GE Lit, Vis and Perf Arts	3
	_____	_____	Elective	3				
			Total:	14			Total:	16
Sophomore Year (ATI)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Begin to consider an internship location. (Internships are not required for A.S. Degree.)	BIOLOGY	1113.01	Energy Transfer and Development ^a	4-5	AGRCOMM	3130	Oral Expression in Agric. ^a	3
Apply to graduate from ATI at least one semester before the semester of your graduation.	CRPSOIL	2300T	Introduction to Soil Science	3	HCS	2204	Ecology of Managed Plant Systems	3
Maintain at least a 2.0 cumulative GPA.	CRPSOIL	2301T	Intro to Soil Science Lab	1	HCS	2205	Ecology of Managed Plant Systems Lab	1
Graduate with Associate of Science Degree.	HCS	2270	Hist. Persp. on Golf Course	2	_____	_____	GE R.E. & G Diversity	3
	HORTTEC	2230T	Fundamentals of Turfgrass Science and Management	3	_____	_____	Elective	4
	_____	_____	Elective	3				
			Total:	16-17			Total:	14
Total credit hours for Associate of Science Degree: 60-61								
Junior Year (Columbus)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Internship should be completed by end of this summer.	HCS	2260	Data Analysis	3	ENTMLGY	4600	Intro to Insect Science	1
Half of minor should be completed by the end of the year.	PLNTPTH	3001	General Plant Pathology	3	ENTMLGY	5608	Turf Insect Pest. Mgmt.	2
Apply to graduate from Columbus at least three semesters before the semester of your graduation.	PLNTPTH	3002	General Plant Pathology Lab	2	HCS	3310	Crop Responses to the Env	3
	_____	_____	GE Theme #1 ^b	3	_____	_____	GE Citizenship #2 ^b (or Open Elective)	3
	_____	_____	GE Citizenship #1 ^b	3	_____	_____	GE Theme #2 ^b	3
	_____	_____	Major Elective	3	_____	_____	Major Elective	2
			Total:	17			Total:	14
Summer					Conduct Internship (enroll in FAES 3191)			
Senior Year (Columbus)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Maintain at least a 2.0 GPA in the major, minor, and cumulative.	ENR	5270	Soil Fertility	3	HCS	4504	Adv. Golf Oper. (Capstone)	3
Graduate with Bachelor of Science Degree.	GENED	4001	GE Reflection	1	HCS	5670	Golf Courses & the Env.	2
	HCS	4191.01	Internship	2	_____	_____	Major Elective	4
	HCS	5422	Biology & Mgmt. of Weeds	3	_____	_____	Minor Equivalent	3
	_____	_____	Minor Equivalent	3	_____	_____	Minor Equiv./Open Elective	3
	_____	_____	Open Elective	3				
			Total:	15			Total:	15
Total credit hours for Bachelor of Science Degree: 121								

^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.

^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 – TURFGRASS SCIENCE 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 Turfgrass Science. The tables below outline the complete degree requirements for the B.S. in Agriculture with a major in Sustainable Plant Systems and specialization in Turfgrass Science. The underlined courses are those that also fulfill a requirement for the A.S. Horticultural Science major. These courses can count toward both degree programs simultaneously.

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Table 1. Degree Requirements			
Subject	Course Options	Hours	✓
GE Launch Seminar	<u>GENED 1201</u>	1	
Writing and Information Literacy	<u>ENGLISH 1110</u>	3	
Mathematical & Quantitative Reasoning/Data Analysis	<u>MATH 1148</u> , 1130, 1150, 1151, or 1156	4-5	
Literary, Visual and Performing Arts	<u>Student Choice</u>	3	
Historical & Cultural Studies	<u>Student Choice</u>	3	
Natural Science	<u>BIOLOGY 1113.01</u>	4	
Social & Behavioral Sciences	<u>AEDECON 2001</u> or ECON 2001	3	
Race, Ethnic and Gender Diversity	<u>Student Choice</u>	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	<u>GENSTDS 1201.01T*</u> OR FAES 1100 & <u>HORTTEC 1201T*</u> OR HCS 1100	.5 .5	
Oral Expression	<u>AGRCOMM 3130</u> or COMM 2110	3	
Additional Science	<u>CHEM 1110</u> , 1210, or 1220	5	
Internship	FAES 3191 and HCS 4191.01 or <u>HORTTEC 2191.50T*</u>	2	
Major	See Table 2.	53-54	
Minor Equivalent ^b	See Table 3.	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.

^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

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

Table 2. Major Requirements		
Course(s)	Hours	✓
CRPSOIL 2300T* Intro to Soil Science OR ENR 3000 Soil Science	3	
BIOTECH 2218T* General and Applied Entomology OR ENTMLGY 4600 Introduction to Insect Science	1	
ENTMLGY 5608 Turfgrass Insect Pest Management	2	
<u>HCS 2202</u> Form and Function in Cultivated Plants	4	
<u>HCS 2204</u> Ecology of Managed Plant Systems ❖	3	
<u>HCS 2205</u> Ecology of Managed Plant Systems Lab	1	
HCS 2260 Data Analysis and Interpretation for Decision Making	3	
<u>HCS 2270</u> Historical Perspectives on Golf Course Dsgn. & Mgt.	2	
HCS 3310 Crop Responses to the Environment	3	
HORTTEC 2260T* Sports Turf Operations, Org. & Management OR HCS 3370 Sports Turf Management	2	
HCS 3420 Seed Science	3	
<u>HORTTEC 2230T*</u> Fundamentals of Turfgrass Sci. & Mgmt. OR HCS 3470 Principles of Turfgrass Management	3	
HCS 4504 Advanced Golf Operations (Capstone)	3	
HCS 4570 Turfgrass Management and Science	3	
HCS 5422 Biology & Mgmt. of Weeds and Invasive Plants	3	
HCS 5670 Golf Courses and The Environment	2	
PLNTPTH 3001 General Plant Pathology Lecture	3	
PLNTPTH 3002 General Plant Pathology Laboratory	2	
Additional Electives to Complete Specialization: See approved list on the CFAES Majors website under SPS	7-8	
Total Major Credit Hours	53-54	

Table 3. Minor Equivalent		
Course(s)	Hours	✓
Choose courses from ONE of the groups below: Group A: Management (includes <u>CRPSOIL 2301T*</u>) Group B: Research See approved lists on the CFAES Majors website under SPS	15-18	
Total Minor Equivalent Credit Hours	15-18	

Additional Bachelor's Degree Requirements:

1. A 2.00 cumulative CPHR is required as well as a 2.00 CPHR in the major and minor coursework.
2. 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.