From: Osborne, Jeanne
To: Smith, Randy

Cc: Reed, Katie; Violet, Cynthia; Lewandowski, Monica; Barker, David; Klooster, Wendy; Lindsey, Alexander

Subject: Information item for CAA: Corrected Update to the Sustainable Plant Systems - HRT BS AGR

Date: Friday, June 13, 2025 9:37:20 AM

Attachments: SPS Horticulture (eff AU22) - Final CORRECTED.docx

image001.png

SPS Horticulture (eff AU23) 9.15.23 Highlight CORRECTED.docx

Dear Dr. Smith

Attached please find updated curriculum sheets for the Sustainable Plant Systems – Horticulture Specialization BS AGR Effective AU22 and AU23, offered in the College of Food, Agricultural, and Environmental Sciences. There has been an additional update to the AU22 version that was sent to you on 4 June. In the process of reviewing majors to be programmed into the new degree audit system, Buckeye Degree Planner, we are carefully reviewing all our curriculum sheets. For the SPS-HRT major, Effective AU22 and AU23, we identified a correction that is the result of a course implementation that is different than what was listed in the original curriculum sheets. Specifically:

- AU22 and AU23: HCS/AGSYSMT 3586 Digital Agriculture with Laboratory (4 cr) has been approved and is an alternative to HCS/AGSYSMT 3585 Digital Agriculture (3 cr) this is listed in both the Major Electives group and the Minor Equivalent Group A.
- AU22: AGSYSMT 3580 has been replaced by AGSYSMT 5560 this is listed in the Minor Equivalent Group A
- AU22: CONSCI 3910 has been replaced by CSHSPMG 3910 this is listed in the Minor Equivalent Group A

No current students will be impacted by this update.

Attached please find updated curriculum sheets highlighting the changes. I believe this can be shared as an information item with the Council on Academic Affairs – if you believe this will require a vote for approval (rather than shared as an information item), please let me know and I will prepare a formal proposal for revision.

Please let me know if you need additional information or clarification.

Thank you,

Jeanne

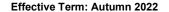


Jeanne M. Osborne | Pronouns: She, Her, Hers

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'Unexpected kindness is the most powerful, least costly, and most underrated agent of human change' (Bob Kerrey)





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

Horticulture is the application of scientific principles to grow vegetables, fruits ornamental plants, and landscape design, as well as business principles to sell the commodities.

Students will take classes in biology, greenhouse and nursery management, fruit and vegetable production, and pest management. Students in this major will complete a minimum of 121

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Major requirement: ENGLISH 1110 * <i>(or Student Choice – see below)</i>	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	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, 1210, or 1220	5
Internship	FAES 3191 & HCS 4191.01	2
Minor Equiv. ^b	See pg. 2	15-18
Credit Hours:		26-29

General Education:	33-38
Degree Requirements:	26-29
Major:	53-54
Open Electives:	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

Major Coursework		
Course	Title	Hours
HCS 2202	Form and Function in Cultivated Plants	
HCS 2201 -or-	Ecology of Managed Plant Systems (prior to AU22)	
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	
ICS 3200	Intro to Horticulture	
ICS 3220	Crop Origins and Diversity	
ICS 3310	Crop Responses to the Environment	
ICS 3320	Plant Propagation	
ICS 5200	Advanced Horticultural Systems (Capstone)	
ICS 5422	Biology and Management of Weeds and Invasive Plants	
NR 3000	Soil Science	
NTMLGY 4600	Intro to Insect Sciences	
NTMLGY 4601	General Insect Pest Management (2)	2
or- ENTMLGY 4000	General Entomology (3)	
or- ENTMLGY 5608	Turfgrass Insect Pest Management (2)	
or- ENTMLGY 5609	Landscape Ornamental Pest Management (3)	
or- ENTMLGY 5610	Greenhouse Pest Management (3)	
LNTPTH 3001	General Plant Pathology	
LNTPTH 3002	General Plant Pathology Lab	
Major Electives: Sele	ect 14 credit hours from:	
ICS 2300	Introduction to Hydroponics	
ICS 2305	Organic Gardening	
ICS 2306	Sustainable Vegetable Production Practicum	
ICS 2307	Sustainable Agriculture Practical Experience	
ICS 2340.01	Woody Ornamental Plants	
ICS 2340.02	Herbaceous Ornamental Plants	
ICS 3380	Latino Workforce in Land Based Industries	
ICS 3410	Sustainable Landscape Maintenance Practices	
ICS 3420	Seed Science	
ICS 3470	Introduction to Turfgrass Management	
ICS 3488.01	Professional Development in Hort. And Crop Science	1
ICS 3521	Greenhouse Systems and Management	
ICS/AGSYSMT 5585 or 3586	Digital Agriculture/with Laboratory ❖	3
ICS 4193	Individual Studies	1
ICS 4300	Hydroponics Crop Production	
ICS 4301 ^d	Hydroponics Crop Production Lab	
ICS 4520	Medicinal Plants	
ICS 4998 °	Undergraduate Research	1
ICS 4999 °	Research with Distinction	1
ICS 4999H ^c	Honors Research with Distinction	1
HCS 5097.03-04 & 1797.03-04	Study Abroad Predeparture & Study Abroad	
Continued on pg. 2		
ICS 5306	Sustainable Vegetable Production Practicum	
HCS 5325	Plant Genetics	

an additional minor is not required.

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

d Review prerequisites.

	Credit Hours:	53-54
HCS 5887	Introduction to Experimental Design	3
HCS 5825 ^d	Plant Breeding	2
HCS 5625 ^d Applied Plant Biotechnology		2
HCS 5622 d Biochemical Processes in Cultivated Plants		3
HCS 5621	Physiology of Cultivated Plants	3
HCS 5460	Fruit Crop Physiology and Production	3
HCS 5450	Vegetable Crop Production and Physiology	

Minor Equivalent (15-18 hours)

Select 15-18 credits from one of the groups below (courses selected as major elective options cannot also count in the minor equivalent).

Group	A: Production a	and Management
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Group A: Production and Management			
Course	Title	Hours	
AEDECON 3101	Principles of Agribusiness Management	3	
AEDECON 3102	Principles of Agribusiness Marketing	3	
AEDECON 3160	Human Resource Management in Small Business	3	
AGSYSMT 2240	Basic Metal Fabrication for Agriculture	3	
AGSYSMT 3232	Engines and Power Transmission	3	
AGSYSMT 3580/5560	UAS and Remote Sensing in Agriculture	3	
HCS/AGSYSMT 3585 or 3586	Digital Agriculture/with Laboratory ❖	3-4	
BUSMHR 2210	Personal Leadership & Team Effectiveness	3	
BUSML 3150	Foundations of Marketing	3	
CONSCI 2910	Consumer Problems and Perspectives	3	
CSHSPMG 3910	Customer Service and Satisfaction	3	
CONSYSM 2205	Introduction to Construction Systems Management	3	
CONSYSM 2241	Construction Materials and Methods II	3	
CONSYSM 2440	Construction Surveying and Site Development	4	
ENR 3001	Soil Science Laboratory	1	
ENR 3700	Intro to Spatial Information for ENR	3	
ENR 5272	Turfgrass Soils	3	
ENR 5279	Urban Soils and Ecosystem Services	3	
ENTMLGY 5500	Biological Control	3	
ENTMLGY 5600	Integrated Pest Management	3	
ENTMLGY 5800	Pesticide Science	3	
PLNTPTH 5110	Ecology and Management of Pathogens and Insects Affecting Trees in Forest and Urban Environments	3	
PLNTPTH 5120	Diseases of Ornamental Plants	2	
PLNTPTH 5150	Diseases of Fruit and Vegetable Crops	2	
PLNTPTH 5603	Plant Disease Management	3	
Group B: Research			
CHEM 2310 ^d	Introductory Organic Chemistry	4	
BIOCHEM 4511	Introduction to Biological Chemistry	4	
EEOB 3310.01 or 3310.02	Evolution	4	
EEOB 3410	Ecology	4	
ENR 5268	Soils and Climate Change	3	
GEOG 5900	Weather, Climate, & Global Warming	3	

Policies and General Requirements for Degree

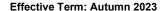
A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS

dearee.

- 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 credithours 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.





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

Horticulture is the application of scientific principles to grow vegetables, fruits ornamental plants, and landscape design, as well as business principles to sell the commodities.

Students will take classes in biology, greenhouse and nursery management, fruit and vegetable production, and pest management. 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	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

hidicates 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	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, 1210, or 1220	5
Internship	FAES 3191 & HCS 4191.01	2
Minor Equiv. ^b	See pg. 2	15-18
	Credit Hours:	26-29

33-38	General Education:
26-29	Degree Requirements:
53-54	Major:
0-9	Open Electives:
121	Minimum Total Credit Hours:

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.
 Students in this program complete a group of courses called a minor equivalent. Declaring

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 3200	Intro to Horticulture	3
HCS 3220	Crop Origins and Diversity	2
HCS 3310	Crop Responses to the Environment	3
HCS 3320	Plant Propagation	;
HCS 5200	Advanced Horticultural Systems (Capstone)	İ ;
HCS 5422	Biology and Management of Weeds and Invasive Plants	;
ENR 3000	Soil Science	;
ENTMLGY 4600	Intro to Insect Sciences	.
ENTMLGY 4601	General Insect Pest Management (2)	2-
or- ENTMLGY 4000	General Entomology (3)	+
-or- ENTMLGY 5608	Turfgrass Insect Pest Management (2)	·
or- ENTMLGY 5609	Landscape Ornamental Pest Management (3)	
or- ENTMLGY 5610	Greenhouse Pest Management (3)	+
PLNTPTH 3001	General Plant Pathology	;
PLNTPTH 3002		
	General Plant Pathology Lab	1
HCS 2300	ect 14 credit hours from:	
	Introduction to Hydroponics	
HCS 2305	Organic Gardening	
HCS 2306	Sustainable Vegetable Production Practicum	
HCS 2307	Sustainable Agriculture Practical Experience	
HCS 2340.01	Woody Ornamental Plants	
HCS 2340.02	Herbaceous Ornamental Plants	
HCS 3380	Latino Workforce in Land Based Industries	
HCS 3410	Sustainable Landscape Maintenance Practices	
HCS 3420	Seed Science	
HCS 3470	Introduction to Turfgrass Management	
HCS 3488.01	Professional Development in Hort. And Crop Science	1-
HCS 3521	Greenhouse Systems and Management	
HCS/AGSYSMT 3585 or 3586	Digital Agriculture/with Laboratory ❖	3-4
HCS 4193	Individual Studies	1-3
HCS 4300	Hydroponics Crop Production	
HCS 4301 ^d	Hydroponics Crop Production Lab	
HCS 4520	Medicinal Plants	
HCS 4998 °	Undergraduate Research	1-
HCS 4999 °	Research with Distinction	1-0
HCS 4999H °	Honors Research with Distinction	1-
HCS 5097.03-04 & 5797.03-04	Study Abroad Predeparture & Study Abroad	
Continued on pg. 2		
HCS 5306	Sustainable Vegetable Production Practicum	;
HCS 5325	Plant Genetics	

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.

	Credit Hours:	53-54
HCS 5887	Introduction to Experimental Design	3
HCS 5825 ^d Plant Breeding		2
HCS 5625 ^d Applied Plant Biotechnology		2
HCS 5622 ^d Biochemical Processes in Cultivated Plants		3
HCS 5621	Physiology of Cultivated Plants	3
HCS 5460	Fruit Crop Physiology and Production	3
HCS 5450	CS 5450 Vegetable Crop Production and Physiology	

Minor Equivalent (15-18 hours)

Select 15-18 credits from one of the groups below (courses selected as major elective options cannot also count in the minor equivalent).

Group A: Production and Management		
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AGSYSMT 5560	UAS and Remote Sensing in Agriculture	3
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BUSML 3150	Foundations of Marketing	3
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CSHSPMG 3910	Customer Experience Management	3
CONSYSM 2205	Introduction to Construction Systems Management	3
CONSYSM 2241	Construction Materials and Methods II	3
CONSYSM 2440	Construction Surveying and Site Development	4
ENR 3001	Soil Science Laboratory	1
ENR 3700	Intro to Spatial Information for ENR	3
ENR 5272	Turfgrass Soils	3
ENR 5279	Urban Soils and Ecosystem Services	3
ENTMLGY 5500	Biological Control of Arthropod Pests	3
ENTMLGY 5600	Integrated Pest Management	3
ENTMLGY 5800	Pesticide Science	3
PLNTPTH 5110	Ecology and Management of Pathogens and Insects Affecting Trees in Forest and Urban Environments	3
PLNTPTH 5120	Diseases of Ornamental Plants	2
PLNTPTH 5150	Diseases of Vegetable and Fruit Crops	2
PLNTPTH 5603	Plant Disease Management	3
Group B: Research		
CHEM 2310 ^d	Introductory Organic Chemistry	4
BIOCHEM 4511	Introduction to Biological Chemistry	4
EEOB 3310.01 or 3310. 02	Evolution	4
EEOB 3410	Ecology	4
ENR 5268	Soils and Climate Change	3
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

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- 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 <u>all</u> 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.
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- 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.
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- 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).
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- 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.