

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 - AGR BS AGR
Date: Friday, June 13, 2025 9:27:58 AM
Attachments: [SPS Agronomy \(eff AU22\) - Final CORRECTED.docx](#)
[image001.png](#)
[SPS Agronomy \(eff AU23\) 9.15.23 CORRECTED.docx](#)

Dear Dr. Smith

Attached please find updated curriculum sheets for the Sustainable Plant Systems – Agronomy 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-AGR 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 and Group B.
- AU22: AGSYSMT 3580 has been replaced by AGSYSMT 5560 – this is listed in the Minor Equivalent Group B

No current students will be impacted by this update.

Attached please find an updated curriculum sheet 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: Agronomy

Students learn to effectively regulate crop productivity through management decisions as they study the interrelationships among physical and biological factors through coursework in plant biology, crop production, grain crops and forages, soil science, plant pathology, and entomology. 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 Student Choice – see below)	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

^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.

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

^d Review prerequisites.

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

Major Coursework		
Course	Title	Hours
HCS 2202	Form and Function in Cultivated Plants	4
HCS 2201 -OR-	Ecology of Managed Plant Systems (prior to AU22)	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	Intro to Agronomy	3
HCS 3310	Crop Responses to the Environment	3
HCS 3420	Seed Science	3
HCS 5100	Advanced Cropping Systems (Capstone)	3
HCS 5325	Plant Genetics	3
HCS 5411	Domestic & Utility Agronomic Crops	3
HCS 5412	Agroecology of Grasslands and Prairies	3
HCS 5422	Biology & Management of Weeds and Invasive Plants	3
ENR 3000	Soil Science	3
ENR 3001	Soil Science Laboratory	1
ENTMLGY 4600	Intro to Insect Science	1
ENTMLGY 4601	General Insect Pest Management	2
PLNTPTH 3001	General Plant Pathology	3
PLNTPTH 3002	General Plant Pathology Lab	2
Major Electives: Select 6-7 credit hours from:		
HCS 3220	Crop Origins and Diversity	2
HCS 3488.01	Professional Development in Hort. and Crop Science	1-3
HCS/AGSYSMT 3585 or 3586	Digital Agriculture/with Laboratory ❖	3-4
HCS 4193	Individual Studies ^c	1-3
HCS 4520	Medicinal Plants	2
HCS 4998	Undergraduate Research ^c	1-6
HCS 4999	Research with Distinction ^c	1-6
HCS 4999H	Honors Research with Distinction ^c	1-6
HCS 5097.01-.04 & 5797.01-.04	Study Abroad Pre-Departure & Study Abroad	4
HCS 5420	Environmental Impacts of Crop-Livestock Systems	3
HCS 5602	Ecology of Agriculture	3
HCS 5621	Physiology of Cultivated Plants	3
HCS 5622	Biochemical Processes in Cultivated Plants	3
HCS 5625	Applied Plant Biotechnology	2
HCS 5825	Plant Breeding	2
HCS 5887	Introduction to Experimental Design	3
Credit Hours:		53-54

Minor Equivalent (15-18 hours)		
AGSYSMT 4580 -or- ENR 3700	Precision Agriculture (2) -or- Intro to Spatial Info for ENR (3)	2-3
ENR 5270	Soil Fertility	3
Select an additional 10-13 hours from one of the following groups (courses selected as major elective options cannot also count in the minor equivalent):		
Group A: Farm Production and Management		
AEDECON 2105	Managerial Records and Analysis	3
AEDECON 3101	Principles of Agribusiness Management	3
AEDECON 3104	Farm Business Management	3
AEDECON 3113	Commodity Futures and Option Markets	2
AEDECON 3123	Grain Merchandising	2
AEDECON 3170	Agribusiness Law	3
AGSYSMT 2370	Environmental Hydrology	2
AGSYSMT 3232 -or- AGSYSMT 3360	Engines and Power Transmission -or- Agricultural Machinery Management	3
AGSYSMT 3330	Grain Handling, Drying, Milling	3
HCS/AGSYSMT 3585 or 3586	Digital Agriculture/with Laboratory ❖	3-4
ANIMSCI 2200.01	Introductory Animal Sciences	3
ANIMSCI 2200.02	Introductory Animal Sciences Lab	1
ENR 3280	Water Quality Management	2
ENR 4260	Soil Resource Management	3
ENTMLGY 5600	Integrated Pest Management	3
ENTMLGY 5800	Pesticide Science	3
PLNTPTH 5140	Diseases of Field Crops	2
PLNTPTH 5603	Plant Disease Management	3
Group B: Consulting and Industry		
AEDECON 3101	Principles of Agribusiness Management	3
AECDEON 3102 -or- BUSML 3150	Principles of Agribusiness Marketing -or- Foundations of Marketing	3
AEDECON 3160 -or- BUSMHR 3100	Human Resources Management in Small Businesses -or- Foundations of Management and Human Resources	3
AGSYSMT 2371	Land Surveying for Agricultural and Environmental Systems	1
AGSYSMT 2580	Introduction to Digital Agriculture	2
AGSYSMT 3330	Grain Handling, Drying, Milling	3
AGSYSMT 3580/5560	UAS and Remote Sensing in Agriculture	3
HCS/AGSYSMT 3585 or 3586	Digital Agriculture/with Laboratory ❖	3-4
AGSYSMT 4300	Engineering Applications in Agriculture	4
AEDECON 3121	Salesmanship in Agribusiness	2
BUSMHR 2000	Introduction to International Business	1.5
ENR 4260	Soil Resource Management	3
ENTMLGY 5600	Integrated Pest Management	3
ENTMLGY 5800	Pesticide Science	3
PLNTPTH 5140	Diseases of Field Crops	2
PLNTPTH 5603	Plant Disease Management	3
Group C: Research		
CHEM 2310 ^d	Introductory Organic Chemistry	4
BIOCHEM 4511 ^d	Introduction to Biological Chemistry	4
EEOB 3310.01 -or- 3310.02	Evolution	4
EEOB 3410	Ecology	4
ENR 5261	Environmental Soil Physics	3

- 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.

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

Students learn to effectively regulate crop productivity through management decisions as they study the interrelationships among physical and biological factors through coursework in plant biology, crop production, grain crops and forages, soil science, plant pathology, and entomology. 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 <i>Student Choice</i> – 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 <i>Student Choice</i> – see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice</i> – 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

^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.

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

^d Review prerequisites.

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	Intro to Agronomy	3
HCS 3310	Crop Responses to the Environment	3
HCS 3420	Seed Science	3
HCS 5100	Advanced Cropping Systems (Capstone)	3
HCS 5325	Plant Genetics	3
HCS 5411	Domestic & Utility Agronomic Crops	3
HCS 5412	Agroecology of Grasslands and Prairies	3
HCS 5422	Biology & Management of Weeds and Invasive Plants	3
ENR 3000	Soil Science	3
ENR 3001	Soil Science Laboratory	1
ENTMLGY 4600	Intro to Insect Science	1
ENTMLGY 4601	General Insect Pest Management	2
PLNTPTH 3001	General Plant Pathology	3
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HCS 3220	Crop Origins and Diversity	2
HCS 3488.01	Professional Development in Hort. and Crop Science	1-3
HCS/AGSYSMT 3585 or 3586	Digital Agriculture/with Laboratory ✦	3-4
HCS 4193	Individual Studies ^c	1-3
HCS 4520	Medicinal Plants	2
HCS 4998	Undergraduate Research ^c	1-6
HCS 4999	Research with Distinction ^c	1-6
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