



Bachelor of Science in Agriculture Major: Agricultural Systems 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 1148 * <i>(or Student Choice – see below)</i>	4			
Literary, Visual and Performing Arts	Student Choice	3			
Historical & Cultural Studies Student Choice		3			
Natural Science	Major requirement: PHYSICS 1200 or 1250 * (or Student Choice – see below)				
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	Reflection GENED 4001				
	General Education Credit Hours:	34-38			

hildicates a pre/corequisite course for this major that also satisfies this GE category. If a student chooses an alternative course 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) & AGSYSMT1100 (0.5)	1		
Oral Expression	AGRCOMM 3130 or COMM 2110	3		
Additional Science	ENR 3000 & 3001	4		
Internship	FAES 3191 & AGSYSMT 3191	2		
Minor Equiv. ^b	See pg. 2	18-21		
	Credit Hours:	28-31		

^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.

Major Supporting C	oursework				
Natural Science Category (Choose 1 of the following courses)					
Course	Title	Hours			
ANIMSCI 2200.01	Introductory Animal Sciences	3			
HCS 2200	The World of Plants				
Data Analysis Cate	gory (Choose 1 of the following courses)				
COMLDR 3537 Data Analysis in the Applied Sciences					
ANIMSCI or HCS 2260	Data Analysis & Interpretation for Decision Making	3			
AEDECON 2005	Data Analysis for Agribusiness & Applied Economics	3			
ENR 2000	Natural Resources Data Analysis	3			
STAT 1450	Introduction to the Practice of Statistics	3			
	Credit Hours:	6			

Major Coursework			
Course	Title	Hours	
AGSYSMT 2240	Basic Metal Fabrication for Agriculture	3	
AGSYSMT 2241	Building Materials & Construction in Agriculture	3	
AGSYSMT 2305	Professional Development I		
AGSYSMT 2310	Electrical Power for Agricultural & Residential Applications	2	
AGSYSMT 2370	Environmental Hydrology	2	
AGSYSMT 2371	Land Surveying for Agricultural & Environmental Systems	2	
AGSYSMT 3232	Engines and Power Transmission	3	
AGSYSMT 3320	Facilities for Agricultural & Greenhouse Production	3	
AGSYSMT 3360	Agricultural Machinery Management	3	
AGSYSMT 3550	Animal & Rural Waste Management	2	
AGSYSMT 4560	Fluid Power and Electronics in Agricultural Machinery	3	
AGSYSMT 4575	Applied Agricultural Water Management	2	
AGSYSMT 4580	Precision Agriculture	2	
AGSYSMT 4605	Professional Development II	1	
AGSYSMT 4900	Capstone in Ag. Systems Management I	2	
AGSYSMT 4910	Capstone in Ag. Systems Management II	2	
AGSYSMT 5600	Agricultural Safety and Health	3	
CSE 1111	Intro to Computer-Assisted Problem Solving	3	
	GSYSMT 3320 Production GSYSMT 3360 Agricultural Machinery Management GSYSMT 3550 Animal & Rural Waste Management GSYSMT 4560 Fluid Power and Electronics in Agricultural Machinery GSYSMT 4575 Applied Agricultural Water Management GSYSMT 4580 Precision Agriculture GSYSMT 4605 Professional Development II GSYSMT 4900 Capstone in Ag. Systems Management II GSYSMT 4910 Capstone in Ag. Systems Management II GSYSMT 4910 Agricultural Safety and Health		

General Education 34-	-38
equirements & Minor Eq. 28-	-31
ajor Supporting Courses	6
Major	43
Open Electives 3-	-10
num Total Credit Hours 1	21

Declaring an additional minor is not required.

ASM Supporting Courses	(Minor Equivalent)	
Principles of Management	(choose one)	3
AEDECON 3101	Principles of Agribusiness Management	3
BUSMHR 3100	Foundations of Management and HR	3
Accounting (choose one)	•	3
AEDECON 2105	Managerial Records and Analysis	3
ACCTMIS 2200	Introduction to Accounting I	3
ACCTMIS 2000	Foundations of Accounting	3
Business Law (choose on	e)	3
AEDECON 3170	Agribusiness Law	3
BUSFIN 3500 & BUSFIN 4510	Legal Environment of Business (1.5) & Legal Business Issue (1.5)	3
	r courses, at least one in each category ast one AGSYSMT course per category	
Agricultural Management		
AGSYSMT 3330	Grain Handling, Drying, and Milling	3
AEDECON 3102	Principles of Agribusiness Marketing	3
AEDECON 3103	Principles of Agribusiness Finance Pre-reg: AEDECON 2105 or ACCTMIS 2200	3
AEDECON 3104	Farm Business Management	3
AEDECON 3114	Commodity Futures & Options Markets	3
AEDECON 3124	Grain Merchandising	3
AEDECON 3160	Human Resource Management in Small Business	3
AEDECON 4540	International Commerce & World Economy	3
BUSMHR 2000	Introduction to International Business	
COMLDR 3530	Foundations of Personal and Professional Leadership	3
COMLDR 4430	Leadership in Teams and Community Organizations	3
CONSYSM 2205	Introduction to Construction Systems Management	3
FABENG/FDSCTE 3400.01	Sustainability of the Food Supply Chain ❖	3
INTSTDS 3850	Introduction to Globalization	3
XXXX 3797	Study Abroad	1-5
XXXX 5797	Study Abroad	1-5
Agricultural Science		
AGSYSMT 2580	Introduction to Digital Agriculture	2
AGSYSMT 5560	UAS and Remote Sensing in Agriculture	3
AGSYSMT 5580	Data Analytics in Production Agriculture	3
ENTMLGY 4601	General Insect Pest Management	2
ENR 5270	Soil Fertility	3
HCS 3420	Seed Science	3
HCS 3521	Greenhouse Systems and Management	2
HCS 5411	Domestication and Utilization of Agronomic Crops	3
HCS 5412	Agroecology of Grasslands and Prairies	3
HCS 5422	Biology and Management of Weeds and Invasive Plants	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 <u>2.00</u> on <u>all</u> coursework completed at The Ohio State University as well as at least a 2.00 in the <u>major</u>.
- 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 <u>not</u> 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.



4-Year Course Plan B.S. in Agriculture Major: Agricultural Systems Management

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	Auto	umn Semester			Spring Semester	
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement -Complete at least one science	FAES 1100	College Survey	.5	GE Nat Sci: Physics 1200	Mech., Fluids, & Waves	5
-Complete GE: WIL	AGSYSMT 1100	Dept Survey	.5	GE Lit, Vis and Perf Arts		3
	GE Math: MATH 1148	College Algebra	4	GE WIL		3
	GE SBS: AEDECON 2001	Prin. of Food & Res. Econ.	3	CSE 1111	Intro to Computer-Assisted Problem Solving	3
	AGRCOMM 3130	Oral Communication	3	GENED 1201	GE Launch Seminar	1
	Open Elective		4			
Hours: 30						
		Total:	15		Total:	15
Sophomore Year	Autı	umn Semester		:	Spring Semester	
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Declare minor	AGSYSMT 2241	Building Materials & Const.	3	AGSYSMT 2240	Metal Fabrication for Ag.	3
-Complete three science courses by the end of this year	ENR 3000 & 3001	Soil Science & Lab	4	AGSYSMT 2310	Elec. Systems	2
-Begin to consider an internship	GE Hist. & Cultural Studies		3	ASM Supporting Course		3
location	AGSYSMT 2371	Land Surveying for Ag.	2	GE R.E. & G. Diversity		3
	AGSYSMT 2370	Environmental Hydrology	2	Major Supporting	ANIMSCI 2200.01 or HCS 2200	3
	AGSYSMT 2305	Profess. Dev. I	2			
Hours: 60		Total:	16		Total:	14
Junior Year	Auti	umn Semester		:	Spring Semester	•
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate	AGSYSMT 3232	Engines & Power Trans.	3	AGSYSMT 3360	Ag. Machinery Mgmt.	3
-Complete internship by end of the summer	AGSYSMT 3550	Animal & Rural Waste Mgt.	2	AGSYSMT 3320	Facilities for Ag. & Greenhouse	3
-Half of major hours to be completed by the end of the year	Major Supporting: Data Analysis	See options	3	ASM Supporting Course	Accounting Option	3
	GE Citizenship #1 a		3	ASM Supporting Course	Law Option	3
	ASM Supporting Course	Management Option	3	GE Citizenship #2 ª		3
	Open Elective		1			
Hours: 90						
		Total:	15		Total:	15
Senior Year	Auti	umn Semester		:	Spring Semester	•
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements	GE Theme Choice #1 a		4	AGSYSMT 4560	Fluid Power & Elect.	3
-Meet with a Career Services Advisor	AGSYSMT 4575	Ag. Water Mgmt.	2	AGSYSMT 5600	Ag. Safety & Health	3
-Complete Department Exit	AGSYSMT 4580	Precision Agriculture	2	AGSYSMT 4910	Capstone II	2
Survey (via email)	AGSYSMT 4900	Capstone I	2	ASM Supporting Course		2-3
	AGSYSMT 3191	Internship	2	ASM Supporting Course		2-3
	FAES 3191	Internship	0	GENED 4001	GE Reflection	1
	AGSYSMT 4605	Profess. Dev. II	1			†
	Open Elective	`	3			
		Total:	16		Total:	
				Minimum credit hours	for Bachelor of Science Degree:	12

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.

4-Year Completion Checklist

Fresh	man Year	Autu	Autumn Semester			Spring Semester	
Bench	Benchmarks Course/Requirement			✓	Course/Requirement		✓
☐ Complete M	Complete Math	FAES 1100					
	requirement	AGSYSMT 1100					
☐ Complete at least on	Complete at least one						
	science						
	Complete GE: WIL						
	,						
Hours	:	Notes:	<u> </u>		Notes:	<u> </u>	İ
So	phomore Year	Autumn Semester			Spring Semester		
	nchmarks	Course/Requirement		√	Course/Requirement		✓
	Declare minor	-					
	Complete three science courses by						
	the end of this year						
	Begin to consider an						
Ш	internship location						
Hours:		Notes:			Notes:		
Junior Year		Autumn Semester			Spring Semester		
Be	nchmarks	Course/Requirement		✓	Course/Requirement		1
	Apply to graduate						
	Complete internship by end of the summer						
_							
	Half of major hours to be completed by the						
	end of the year	Al. (Al-t-		
Hours:		Notes:			Notes:		
Senior Year		Autumn Semester		Spring Semester			
	nchmarks	Course/Requirement		√	Course/Requirement		√
_							,
	Meet graduation requirements						
	Most with a Career						
	Meet with a Career Services Advisor						
	Onwellata						
	Complete Department Exit						
	Survey (via email)	Notes:		Notes:			
Hours	<i>:</i>						
Minimum credit hours for Bachelor of Science Degree: 12						121	