

4-Year Course Plan

AGRICULTURAL SYSTEMS MANAGEMENT MAJOR (A.S.) INTERESTED IN AGRICULTURAL SYSTEMS MANAGEMENT MAJOR (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 Agricultural Systems Management and a Bachelor of Science Degree in Agriculture with a major in Agricultural Systems Management. 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.	CRPSOIL	2300T 2301T	Intro. to Soil Science Intro. to Soil Science Lab	3 1	AEDECON	2001	Principles of Food and Resource Economics ^a	3
ENGLISH 1110 should be completed by the end of this year.	ENGLISH	1110.01	First-Year English Composition	3	ANIMSCI HCS HCS	2200.01 or 2202 or 2204	Intro. Animal Sci. or Form & Function in Cultivated Plants or Ecology of Managed Plant Systems	3-4
Begin to consider study abroad programs.	ENGTECH	1201.03T	Exploring Agricultural Systems Management	.5	GENED	1201	GE Launch Seminar	1
	ENGTECH	2120T	Building Science: Methods & Materials	4			GE Hist. & Cultural Studies	3
	GENSTDS	1201.01T	College Orientation	.5			GE Lit, Vis and Perf Arts	3
	MATH	1148	College Algebra	4			Electives	3
							Total:	16-17
						Summer Semester		
					ENGTECH		Internship	2
			Total:	16	LIVOTEOTI	2101.011	Total:	2
Sophomore Year (ATI)		Δ	utumn Semester			Sr	oring Semester	
Benchmarks	Department	Course #		Hours	Department	•	Course Name	Hours
Apply to graduate from ATI at least	CRPSOIL	2228T		3	AGRCOMM	3130	Oral Expression in Agriculture	3
one semester before the semester of	ENGTECH		Manure Management					2
your graduation.		2240T	Welding & Metal Fabrication	3	AGSYSMT	2305	Professional Development I	
Maintain at least a 2.0 cumulative GPA.	PHYSICS	1200	Mechanics, Kinematics, Fluids, Waves ^a	4-5	ENGTECH	2040T	Soil and Water Conservation Systems	4
			Electives	3			GE R.E. & G. Diversity	3
Graduate with Associate of Science Degree.							Electives	3
			Total:	13-14			Total:	15
					Total credit h	ours for Ass	ociate of Science Degree:	62-64
Junior Year (Columbus)		Α	utumn Semester			Sį	oring Semester	
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Half of major hours should be	AGSYSMT	3232	Engines & Power Transmission	3	AGSYSMT	2310	Elec. Systems	2
completed by the end of this year. Apply to graduate from Columbus at	CSE	1111	Intro to Computer-Assisted Problem Solving	3	AGSYSMT	3320	Facilities for Agr. & Greenhouse Prod.	3
least three semesters before the			Data Analysis	3	AGSYSMT	3360	Agr. Machinery Mgmt.	3
semester of your graduation.			GE Citizenship #1	3			GE Citizenship #2	3
			ASM Supporting Course Management Option	3			ASM Supporting Course Law Option	3
			Total:	15			Total:	14
Senior Year (Columbus)		Α	utumn Semester			Sį	oring 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.	AGSYSMT	4575	Applied Agricultural Water Management	2	AGSYSMT	4560	Fluid Power & Electronics in Agr. Machinery	3
Graduate with Bachelor of Science	AGSYSMT	4580	Precision Agriculture	2	AGSYSMT	4910	Capstone II	2
Degree.	AGSYSMT	4900	Capstone I	2	AGSYSMT	5600	Agr. Safety & Health	3
	AGSYSMT	4605	Prof. Development II	1	GENED	4001	GE Reflection	1
			GE Theme Choice #1	4			ASM Supporting Course	2-3
			Open elective	4			ASM Supporting Course Accounting Option	3
			Total:	15			Total:	
					Total cre	dit 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 This course requirement may also be completed at ATI, and may be used as an elective in the A.S. major. See corresponding *Degree Requirements* for details.



AGRICULTURAL SYSTEMS MANAGEMENT MAJOR (A.S.) INTERESTED IN AGRICULTURAL SYSTEMS MANAGEMENT MAJOR (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 Agricultural Systems Management and a Bachelor of Science (B.S.) Degree with a major in Agricultural Systems Management. The tables below outline the complete degree requirements to earn a B.S. in Agriculture with a major in Agricultural Systems Management. The <u>underlined</u> courses are those that may also fulfill a requirement for the A.S. Agricultural Systems Management 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 1110.01	3			
Mathematical & Quantitative Reasoning/Data Analysis	MATH 1148	4			
Literary, Visual and Performing Arts	Student Choice	3			
Historical & Cultural Studies	Student Choice	3			
Natural Science	PHYSICS 1200	5			
Social & Behavioral Sciences	AEDECON 2001 or ECON 2001.01	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 and ENGTECH 1201.03T* OR AGSYSMT 1100	.5 .5			
Oral Expression	AGRCOMM 3130 OR COMM 2110	3			
Additional Science	CRPSOIL 2300T* and 2301T* OR ENR 3000 and 3001	4			
Internship	ENGTECH 2191.04T* or FAES 3191 and AGSYSMT 3191	2			
Major Coursework	See Table 2.	43			
Major Supporting Coursework	See Table 3.	6			
Minor Equivalents	See Table 4.	18-21			
Electives	(May include ENGTECH 2016T*b)	2-4			
Minimum Total Credit Hours					

^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.
- 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.
- Applications to graduate must be submitted at least three semesters in advance.

Table 2. Major Coursework			
Course(s)	Hours	✓	
ENGTECH 2240T* Welding & Metal Fabrication OR AGSYSMT 2240 Basic Metal Fabrication for Agriculture	3		
ENGTECH 2120T* Building Science: Methods & Materials OR AGSYSMT 2241 Building Materials & Construction in Agriculture	3		
AGSYSMT 2305 Professional Development I	2		
AGSYSMT 2310 Electrical Systems for Agr. & Residential Applications	2		
ENGTECH 2040T* Soil & Water Conservation Systems OR AGSYSMT 2370 and 2371 Environmental Hydrology and Land Survey for Agricultural & Environmental Systems	4		
ENGTECH 2011T*b Small Engine Basics OR AGSYSMT 3232 Engines and Power Transmission	3		
AGSYSMT 3320 Facilities for Agricultural & Greenhouse Production	3		
AGSYSMT 3360 Agricultural Machinery Management	3		
CRPSOIL 2228T* Manure Management OR AGSYSMT 3550 Animal and Rural Waste Management	2		
AGSYSMT 4560 Fluid Power & Electronics in Agricultural Machinery	3		
AGSYSMT 4575 Applied Agricultural Water Management	2		
AGSYSMT 4580 Precision Agriculture	2		
AGSYSMT 4605 Professional Development II	2		
AGSYSMT 4900 Capstone in AGSYSMT I	2		
AGSYSMT 4910 Capstone in AGSYSMT II	2		
AGSYSMT 5600 Agricultural Safety and Health	3		
CSE 1111 Computer Problem Solving in Business or CSE 1112 Computer Problem Solving for CSM	3		
Total Major Coursework Credit Hours	43		

Table 3. Major Supporting Coursework			
Course(s)	Hours	✓	
Natural Science (choose one from below)	3		
ANIMSCI 2200.01 Introductory Animal Sciences			
HCS 2200 The World of Plants			
Data Analysis (choose one from below)	3		
COMLDR 3537 b Data Analysis in the Applied Sciences			
ANIMSCI or HCS 2260 Data Analysis & Interpretation for Decision Making			
AEDECON 2005 Datal Analysis for Agribus. & Applied Econ.			
ENR 2000 Natural Resources Data Analysis			
STAT 1450 Introduction to the Practice of Statistics			
Total Major Supporting Course Credit Hours			

^b May be completed as a Technical Elective in the A.S. major

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

Table 4. Minor Equivalents		
Course(s)	Hours	✓
Accounting (choose one from below)	3	
AEDECON 2105 b Managerial Records and Analysis		
ACCT&MIS 2200 Introduction to Accounting I		
ACCT&MIS 2000 Foundations of Accounting		
Principles of Management (choose one from below)	3	
ANMLTEC 3800T*b Principles of Farm Business Management or BUSTEC 2241T*b Small Business Management OR AEDECON 3101 Principles of Agribusiness Management		
BUSMHR 3100 Foundations of Management & HR		
Business Law (choose one from below)	3	
BUSTEC 2247T*b Business Law OR AEDECON 3170 Agribusiness Law		
BUSFIN 3500 Legal Environment of Business AND BUSFIN 4510 Legal Business Issue		
ASM Electives: Select four courses, at least one in each cate "Students are encouraged to take at least one ASM course per category	gory	
Agricultural Management		
AGSYSMT 3330 Grain Handling, Drying, and Milling	3	
AGSYSMT/FDSCTE 3400 Sustainability of the Food Supply Chain ❖	4	
AEDECON 3102 Principles of Agribusiness Marketing OR BUSTEC 2231T*b Fundamentals of Marketing	3	
AEDECON 3103 Principles of Agribusiness Finance Pre-req: AEDECON 2105 or ACCTMIS 2200 OR BUSTEC 2249T*b Fundamentals of Business Finance	3	
AEDECON 3104 Farm Business Management	3	
AEDECON 3113 Commodity Futures & Options Markets	2	
AEDECON 3123 Grain Merchandising	2	
AEDECON 3160 Human Resource Mgt. in Small Business OR BUSTEC 2244T *,b Human Resource Mgt. & Leadership	3	
AEDECON 4540 International Commerce & World Economy	3	
BUSMHR 2000 Introduction to International Business	1.5	
COMLDR 3530 ^b Foundations of Personal and Professional Leadership	3	
COMLDR 4430 Leadership in Teams and Community Organizations	3	
CONSYSM 2205 Introduction to Construction Systems Mgt. OR ENGTECH 2110T*b Construction Drawing and Basic Estimating AND 2170T*b Construction Project Management	3	
INTSTDS 3850 Introduction to Globalization	3	
XXXX 3797 Study Abroad	1-5	
XXXX 5797 Study Abroad	1-5	
Agricultural Science	1-5	
AGSYSMT 2580 Introduction to Digital Agriculture	2	
AGSYSMT 3580 UAS and Remote Sensing in Agriculture	3	
AGSYSMT 5580 Data Analytics in Production Agriculture	3	
ENTMLGY 4601 General Insect Pest Management or BIOTECH 2218T*.b General and Applied Entomology	2	
ENR 5270 Soil Fertility	3	
HCS 3420 Seed Science	3	
HCS 3521 Greenhouse Systems and Management OR HORTTEC 2500T*. Greenhouse Environment Control	2	
HCS 5411 Domestication and Utilization of Agronomic Crops	3	
HCS 5412 Agroecology of Grasslands and Prairies	3	
HCS 5422 Biology and Mgt. of Weeds and Invasive Plants	3	
Total AGSYSMT Supporting Course Credit Hours	18-21	

^b May be completed as a Technical Elective in the A.S. major