

Agricultural Systems Management, BS
Agrosecurity Concentration
Department of Agricultural and Biological Engineering

Fall 2025
Catalog Term: 202610
Program: AGRMECH-BS
Major: ASM
Concentration: AGSM
Credit Hours: 120

Departmental/Program Major Courses (50-52 credits)

Required Major courses (22 credits)

- _____ (3) ASM 10400 Introduction to Agricultural Systems
- _____ (3) ASM 10500 Computing Technology with Application
- _____ (3) ASM 21100 Technical Graphics Communications
- _____ (1) ASM 22100 Career Opportunities Seminar
- _____ (3) ASM 22200 Crop Production Equipment
- _____ (3) ASM 33300 Facilities Planning and Management
- _____ (1) ASM 35000 Safety in Agriculture
- _____ (1) ASM 42100 Senior Seminar
- _____ (1) ASM 49400 Project Planning and Management
- _____ (3) ASM 49500 Agricultural Systems Management Capstone Project ([satisfies COA Capstone or Experience Selective](#))

AgroSecurity Concentration Courses (28-30 credits)

Required Agrosecurity Courses (21 credits)

- _____ (3) AGEC 33000 Management Methods For Agricultural Business
- _____ (3) ASM 23600 Environmental Systems Management ([satisfies UCC & COA Science, Technology & Society requirement](#))
- OR _____ (3) ASM 34500 Material Handling and Processing
- _____ (3) ASM 24500 Material Handling and Processing
- _____ (3) ASM 42000 Electric Power and Controls
- _____ (3) ASM 51000 Agrosecurity-Emergency Management For Agricultural Production Operations
- _____ (3) ASM 51100 Foundations In Homeland Security Studies
- _____ (3) ASM 51200 Managing Resources And Applications For Homeland Security

Required Agrosecurity Selectives (6-9 hours)

- _____ (1-4) [Agricultural Selectives](#)
- _____ (3) [Agrosecurity Selective](#)
- _____ (3) ASM Major Selective (any ASM course 40000+ level)

Other Department/Program Course Requirements (67-70 credits)

- _____ (0.5) AGR 10100 Introduction to the College of Agriculture and Purdue University
- _____ (0.5) AGR 11100 Introduction to Agricultural and Biological Engineering Academic Programs
- _____ (3) AGEC 20300 ([satisfies UCC Human Cultures: Behavioral/Social Sci requirement & COA Economics selective](#))
- OR (3) ECON 25100 ([satisfies UCC Human Cultures: Behavioral/Social Sci requirement & COA Economics selective](#))
- _____ (3) AGEC 33100 Principles of Industrial Selling
- _____ (3) AGEC 35200 Quantitative Techniques for Firm Decision Making
- _____ (3) AGEC 45500 Agriculture Law OR _____ (3) MGMT 45500 Legal Background for Business
- _____ (3) AGRY 25500 Soil Science
- _____ (3) CHM 11100 General Chemistry I ([satisfies a UCC Science & COA Chemistry requirement](#))
- _____ (3) CHM 11200 General Chemistry II ([satisfies a UCC Science & COA Chemistry requirement](#))
- _____ (3) MA 16010 Applied Calculus I ([satisfies UCC Quantitative Reasoning requirement](#))
- _____ (3) MGMT 21200 Business Accounting OR _____ (3) MGMT 20000 Introductory Accounting
- _____ (3) PHYS 21400 The Nature of Physics ([satisfies COA Additional Math and/or Science Selective](#))
- _____ (3) STAT 30100 Elementary Statistical Methods ([satisfies a UCC Information Literacy & COA Statistics requirement](#))
- _____ (3) [Marketing Selective](#)
- _____ (8) [Biological Science Selective](#)
- _____ (3) [Human Cultures: Humanities Selective](#) ([satisfies UCC Human Cultures: Humanities requirement](#))
- _____ (6) [Humanities or Social Science Selective](#)
- _____ (3) [Humanities or Social Science Selective](#) (30000+ level)
- _____ (3) [Oral Communication Selective](#) ([satisfies UCC Oral Communication requirement](#))
- _____ (1-3) [Science, Technology & Society Selective](#) ([satisfies UCC Science, Technology & Society Selective requirement](#))
- _____ (3-4) [Written Communication Selective](#) ([satisfies UCC Written Communication requirement](#))
- _____ (3) [Written or Oral Communication Selective](#) (20000+ level)
- _____ [International Understanding](#) (9 credits - may be met with UCC or COA Core Requirements)

The student is ultimately responsible for knowing and completing all degree requirements. The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion. 120 semester credits required for degree completion. 2.0 Graduation GPA required for Bachelor of Science degree.

Agricultural Systems Management, BS
Agrosecurity Concentration
Department of Agricultural and Biological Engineering

Fall 2025
Catalog Term: 202610
Program: AGRMECH-BS
Major: ASM
Concentration: AGSM
Credit Hours: 120

Suggested Arrangement of Courses; Please see your academic advisor for other options creating your personalized plan of study
Note that course placement is dependent upon both pre-requisite requirements as well as limited offering terms (i.e. course may only be offered in Fall or Spring terms – not both)

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100[†]		3	ASM 10500[‡]	MA 15800 or ALEKS score ≥ 75
0.5	AGR 11100[†]	co: AGR 10100	3	CHM 11200*	CHM 11100
3	ASM 10400		3	PHYS 21400	
3	CHM 11100*		3	<u>UCC Human Cultures: Humanities Selective*</u>	
3	MA 16010*	ALEKS score ≥ 75	3-4	<u>Written Communication Selective*</u>	
	AGEC 20300 or ECON 25100				
3	<u>Oral Communication Selective*</u>				
16			15-16		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	MGMT 21200 or MGMT 20000	MA 15800 or MA 16010	3	AGEC 33000	
1	ASM 22100[†]	ASM 10400	3	AGRY 25500	
3	ASM 22200[†]	ASM 10500, PHYS 21400	3	ASM 24500[‡]	ASM 10500
3	STAT 30100*		3	ASM 21100[†]	ASM 10500
4	<u>Biological Science Selective</u>		4	<u>Biological Science Selective</u>	
14			16		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	AGEC 33100		3	ASM 23600[†] or ASM 34500[‡]	ASM 22200 (ASM 34500)
3	ASM 33300[‡]	ASM 10500, ASM 21100	1	ASM 35000[‡]	PHYS 21400
3	AGEC 35200	STAT 30100	3	ASM 42000[‡]	PHYS 21400
1-3	<u>Science, Technology & Society Selective*</u>		3	<u>AgroSecurity Selective</u>	
3	<u>Written or Oral Communication Selective (20000+ level)</u>		3	<u>Humanities or Social Science Selective</u>	
			3	<u>Humanities or Social Science Selective</u>	
14-16			16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ASM 42100[†]	ASM 22100	3	ASM 49500[‡]	ASM 49400
1	ASM 49400[†]	ASM 22100	3	ASM 51200[‡]	
3	ASM 51000[†]		3	ASM Major Selective (40000+)	
3	ASM 51100[†]		3	<u>Humanities or Social Science Selective (30000+)</u>	
3	AGEC 45500[†] or MGMT 45500[†]		1-4	<u>Agricultural Selective</u>	
3	<u>Marketing Selective</u>				
14			13-16		

* Fulfills University [Undergraduate Core Curriculum \(UCC\) Requirement](#).

[†] Indicates Fall only course

[‡] Indicates Spring only course

[International Understanding](#) (9 credits - may be met with UCC or COA Core Requirements)

The student is ultimately responsible for knowing and completing all degree requirements. The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion. 120 semester credits required for degree completion. 2.0 Graduation GPA required for Bachelor of Science degree.