

**Agricultural Systems Management, BS**  
**Data and Information Systems Concentration**  
**Department of Agricultural and Biological Engineering**

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

**Departmental/Program Major Courses (50-53 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](#))

**Required Major courses – Data and Information Systems Concentration (28-31 credits)**

**Data and Information Systems Concentration Courses (15 credits)**

- \_\_\_\_\_ (3) AGEC 33000 Management Methods for Agriculture Business
- \_\_\_\_\_ (3) ASM 54000 Geographic Information System Application
- \_\_\_\_\_ (3) CNIT 15501 Introduction To Software Development Concepts
- \_\_\_\_\_ (3) CNIT 18000 Introduction To Systems Development
- \_\_\_\_\_ (3) CNIT 25501 Object-Oriented Programming Introduction

**Data and Information Concentration Selectives (13-16 credits)**

- \_\_\_\_\_ (1-4) [Agricultural Selectives](#)
- \_\_\_\_\_ (9) ASM Major Selective (any ASM course)
- \_\_\_\_\_ (3) [CNIT Selective](#)

**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 & COA Calculus requirements](#))
- \_\_\_\_\_ (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 & COA Science, Technology & Society 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.

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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
3	<b>AGEC 20300 or ECON 25100</b>		3	<b>ASM 10500<sup>†</sup></b>	MA 16010
0.5	<b>AGR 10100<sup>†</sup></b>		3	<b>CHM 11200*</b>	CHM 11100
0.5	<b>AGR 11100<sup>†</sup></b>	co: AGR 10100	3	<b>PHYS 21400</b>	
3	<b>ASM 10400</b>		3	<a href="#">UCC Human Cultures: Humanities Selective*</a>	
3	<b>CHM 11100*</b>		3-4	<a href="#">Written Communication Selective*</a>	
3	<b>MA 16010*</b>	ALEKS score ≥ 75			
3	<a href="#">Oral Communication Selective*</a>				
<b>16</b>			<b>15-16</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	<b>AGRY 25500</b>		3	<b>ASM 21100<sup>†</sup></b>	ASM 10500
1	<b>ASM 22100<sup>†</sup></b>	ASM 10400	3	<b>CNIT 15501</b>	
3	<b>ASM 22200<sup>†</sup></b>	ASM 10500, PHYS 21400	3	<b>STAT 30100*</b>	
3	<b>CNIT 18000</b>		3	<b>ASM Major Selective (any ASM course)</b>	
4	<a href="#">Biological Science Selective</a>		4	<a href="#">Biological Science Selective</a>	
<b>14</b>			<b>16</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	<b>AGEC 33100</b>		3	<b>AGEC 33000</b>	
3	<b>AGEC 35200</b>		3	<b>MGMT 21200 or MGMT 20000</b>	MA 15800 or MA 16010
3	<b>ASM 33300<sup>†</sup></b>		1	<b>ASM 35000<sup>†</sup></b>	
3	<b>ASM Major Selective (any ASM course)</b>		3	<b>CNIT 25501</b>	CNIT 15501
3	<a href="#">Marketing Selective</a>		3	<a href="#">Humanities or Social Science Selective</a>	
			3	<a href="#">Written or Oral Communication Selective (20000+ level)</a>	
<b>15</b>			<b>16</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	<b>AGEC 45500<sup>†</sup> or MGMT 45500<sup>†</sup></b>		3	<b>ASM 49500<sup>†</sup></b>	ASM 49400
1	<b>ASM 42100<sup>†</sup></b>	ASM 22100	3	<b>ASM Major Selective (any ASM course)</b>	
1	<b>ASM 49400<sup>†</sup></b>	ASM 22100	3	<a href="#">Humanities or Social Science Selective</a>	
3	<b>ASM 54000</b>		3	<a href="#">Humanities or Social Science Selective (30000+)</a>	
3	<a href="#">CNIT Selective</a>		1-4	<a href="#">Agriculture Selective</a>	
1-3	<a href="#">Science, Technology &amp; Society Selective*</a>				
<b>12-14</b>			<b>13-16</b>		

\* Fulfills University Undergraduate Core Curriculum Requirement.

<sup>†</sup> Indicates Fall only course

<sup>‡</sup> Indicates Spring only course

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

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