# Agricultural Systems Management

Department Information

- · Department Location: Agricultural and Biosystems Engineering
- Department Phone: 701-231-7261
- Department Email: ndsu.asm@ndsu.edu
- · Department Web Site: www.ndsu.edu/aben/
- Degrees Offered: B.S.
- · Plan Of Study Sample: bulletin.ndsu.edu/programs-study/undergraduate/agricultural-systems-management/#planofstudytext

# Major Requirements

# **Major: Agricultural Systems Management**

Degree Type: B.S. Minimum Degree Credits to Graduate: 127

## University Degree Requirements

- 1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
- 2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
- Satisfactory completion of the general education requirements as specific by the university.
- 4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
- 5. At least 36 credits presented for graduation must be in courses number 300 or higher.
- 6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institituion.
  - a. Of these 60, at least 36 must be NDSU residence credits as defined in #7.
  - b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
- 7. At least 36 credits must be NDSU resident credits. Residence credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (http://bulletin.ndsu.edu/past-bulletin-archive/2018-19/academicpolicies/undergraduate-policies/degree-and-graduation) section of this Bulletin.

## University General Education Requirements

Code	Title	Credits
Communication (C)		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing <sup>†</sup>		
Quantitative Reasoning (R) $^{\dagger}$		3
Science and Technology (S) $^{\dagger}$		10
Humanities and Fine Arts (A) $^{\dagger}$		6
Social and Behavioral Sciences (B) $^{\dagger}$		6
Wellness (W) <sup>†</sup>		2
Cultural Diversity (D) $^{*+}$		
Global Perspectives (G) $^{*\dagger}$		
Total Credits		39

- \* May be satisfied by completing courses in another General Education category.
- <sup>+</sup> General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.
- A list of university approved general education courses and administrative policies are available here (http://bulletin.ndsu.edu/past-bulletinarchive/2018-19/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

## **ASM Major Requirements**

Students must maintain a 2.25 GPA in ASM prefix courses.

Code	Title	Credits
Agricultural Systems Management C	ore Requirements	
ASM 115	Fundamentals of Agricultural Systems Management (Students transferring in or changing major to ASM with 32+ credits do not need to take ASM 115)	3
ASM 125	Fabrication & Construction Technology (Students transferring in or changing major to ASM with 32+ credits do not need to take ASM 125)	3
ASM 225	Computer Applications in Agricultural Systems Management	3
ASM 264	Natural Resource Management Systems	3
ASM 264L	Natural Resource Management Systems Laboratory	1
ASM 323	Post-Harvest Technology	3
ASM 354	Electricity and Electronic Applications	3
ASM 373	Tractors & Power Units	3
ASM 374	Power Units Laboratory	1
ASM 378	Machinery Principles and Management	3
ASM 429	Hydraulic Power Principles and Applications	3
ASM 454	Principles and Application of Precision Agriculture	3
ASM 475	Management of Agricultural Systems (Capstone Course)	2
ASM 491	Seminar	1
ASM 496	Field Experience (Expo)	1
Supporting Courses		
ABEN 189	Skills for Academic Success <sup>1</sup>	1
CHEM 121	General Chemistry I (May satisfy general education category S)	3
CHEM 122	General Chemistry II (May satisfy general education category S)	3
CSCI 114	Microcomputer Packages (May satisfy general education category S)	3
or MIS 116	Business Use of Computers	
ECON 201	Principles of Microeconomics (May satisfy general education category B)	3
ECON 202	Principles of Macroeconomics (May satisfy general education category B)	3
MATH 103	College Algebra (or higher - May not be required based on math placement.)	3
MATH 105	Trigonometry (or higher)	3
PHYS 211	College Physics I (May satisfy general education category S)	3
PHYS 211L	College Physics I Laboratory (Either course may satisfy general education category S)	1
or CHEM 121L	General Chemistry I Laboratory	
STAT 330	Introductory Statistics (May satisfy general education category R)	3
Select one of the following:		3 or 6
ACCT 102	Fundamentals of Accounting	
ACCT 200 & ACCT 201	Elements of Accounting I and Elements of Accounting II	
Specialized Options - Select from on option.	e of the specialized options listed below. A minor program of study may be completed in place of an	30-38

**Total Credits** 

Credits

1 AGRI189 is only required for first-time, first-year students-A first-time, first-year student is defined as a student who has not yet completed a college course as a college student. Students that are not first-time, first-year students that either transfer into the university or change their major are not required to take AGRI 189.

## specialized options

#### Code

#### Applied Business Option: Minimum 30 Credits

Title

This is the standard option for this major; students can declare another option or the minor option with the Office of Registration and Records. Complete any course from the College of Ag, including Ag Econ as well as the BIO dept, and those listed under Program/Option Electives. Select courses in agriculture science or supporting areas to enhance careers in Agribusiness. Select courses in consultation with an advisor. Courses not on the list will require a substitution form to be submitted to the Office of Registration and Records.

Production Agriculture Option: Minimum of 30 Credits Complete any course from the College of Ag, including Ag Econ as well as the BIO dept, and those listed under Program/Option Electives Select courses in consultation with an advisor. Courses not on the list will require substitution form to be submitted to the Office of Registration and Records.	
Select courses in consultation with an advisor. Courses not on the list will require substitution form to be submitted to the Office of	
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Code Title	Credits
Dealership Management Option: Minimum 32-38	
Minor in either Business Administration (24 credits) or Agribusiness (18 credits) required.	18-24
ACCT 200 Elements of Accounting I	6
& ACCT 201 and Elements of Accounting II	
ASM 496 Field Experience	2
Elective Complete any course from the College of Ag, including Ag Econ as well as the BIO dept, and those listed under Program/Option Electives	3
Select one of the following:	3
COMM 214 Persuasive Speaking	
COMM 271 Listening and Nonverbal Communication	
COMM 308 Business and Professional Speaking	
COMM 315 Small Group Communication	

#### **Degree Requirements and Notes:**

- · Students must register for an ASM internship in the semester it is be completed. This includes internships arranged with the NDSU Career Center.
- Transfer grades must be 'C' or higher to count towards major requirements.
- · The completion of a minor program of study is suggested but not required.
- · Option suggestions are: Accounting, Agribusiness, Animal Sciences, Business Administration, Construction Management, Crop & Weed Sciences, Industrial Engineering & Management, Public Relations & Advertising, or Range Science.

# **Minor Requirements**

## **Agricultural Systems Management**

## **Minor Requirements**

**Required Credits: 16** 

Code	Title	Credits
Required Courses		
ASM 264	Natural Resource Management Systems	3
ASM 354	Electricity and Electronic Applications	3
ASM 373	Tractors & Power Units	3
or ASM 378	Machinery Principles and Management	
Remaining Credits: Select 7 credits from the following:		7
ASM 225	Computer Applications in Agricultural Systems Management	
ASM 323	Post-Harvest Technology	
ASM 374	Power Units Laboratory	

Total Credits		16
ASM 496	Field Experience	
ASM 496	Field Experience (Expo)	
ASM 491	Seminar	
ASM 475	Management of Agricultural Systems (Capstone)	
ASM 454	Principles and Application of Precision Agriculture	
ASM 429	Hydraulic Power Principles and Applications	

#### **Minor Requirements and Notes:**

- A minimum of 8 credits must be taken at NDSU.
- · Students must earn a minimum 2.00 GPA for the minor requirements.

Code	Title	Cr	dits
Ontion Electives			

#### otion Electives

May select any courses offered in the College of Ag, including Ag Econ, as well as the Biology department, and those curses listed here. ASM 496 - Ag Tech Expo (1 add'l cr.) may be used as an Option Elective for all Specialized Options. ASM 496 - Field Exp/Internship, 1 cr., may also be used as an Option Elective (maximum two credits) in the Applied Business and Production Agriculture Specialized Options only. ACCT 201 Elements of Accounting II AGEC 1XX - 4XX ANSC 1XX - 4XX **BUSN 340** International Business **BUSN 487** Managerial Economics BUSN 3XX -4XX COMM 114 Human Communication **COMM 212** Interpersonal Communication COMM 216 Intercultural Communication **COMM 260** Introduction to Web Design **COMM 308 Business and Professional Speaking** COMM 313 **Editorial Processes** Principles of Design For Print COMM 362 **COMM 434 Communication Law COMM 484** Organizational Advocacy and Issue Management **Risk and Crisis Communication COMM 485** ECON 105 **Elements of Economics** ECON 341 Intermediate Microeconomics ECON 343 Intermediate Macroeconomics ECON 3XX - 4XX ENT 1XX - 4XX FIN 320 **Principles of Finance** FIN 3XX - 4XX **GEOG 105** Fundamentals of Geographic Information Systems **GEOG 455** Introduction to Geographic Information Systems **GEOG 456** Advanced Geographic Information Systems **GEOG 470** Remote Sensing **GEOG 480** Geographic Information Systems Pattern Analysis and Modeling IME 335 Welding Technology **MGMT 320** Foundations of Management MGMT 3XX - 4XX **MRKT 320** Foundations of Marketing MRKT 3XX - 4XX ME 311 Introduction To Aviation ME 312 Introduction to Flight

ME 313 PLSC 1XX - 4XX SOIL 1XX - 4XX Commercial Instrument Ground School