

Agricultural Systems Management

Department Information

- **Department Location:**
Agricultural and Biosystems Engineering
- **Department Phone:**
701-231-7261
- **Department Email:**
nds.asm@nds.edu
- **Department Web Site:**
www.ndsu.edu/aben/ (<http://www.ndsu.edu/aben/>)
- **Credential Offered:**
B.S.
- **Plan Of Study Sample:**
catalog.ndsu.edu/programs-study/undergraduate/agricultural-systems-management/#planofstudytext (<http://catalog.ndsu.edu/programs-study/undergraduate/agricultural-systems-management/#planofstudytext>)

Major Requirements

Major: Agricultural Systems Management

Degree Type: B.S.

Minimum Degree Credits to Graduate: 120

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.
3. Satisfactory completion of the general education requirements as specified 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 numbered 300 or higher.
6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
 - a. Of these 60, at least 36 must be NDSU resident 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. Resident credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (<http://catalog.ndsu.edu/past-bulletin-archive/2021-22/academic-policies/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 [†] | | |
| Quantitative Reasoning (R) [†] | | 3 |
| Science and Technology (S) [†] | | 10 |
| Humanities and Fine Arts (A) [†] | | 6 |
| Social and Behavioral Sciences (B) [†] | | 6 |
| Wellness (W) [†] | | 2 |
| Cultural Diversity (D) ^{**†} | | |
| Global Perspectives (G) ^{**†} | | |
| Total Credits | | 39 |

2 Agricultural Systems Management

- * May be satisfied by completing courses in another General Education category.
 - † 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://catalog.ndsu.edu/past-bulletin-archive/2021-22/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 Core 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 475 | Management of Agricultural Systems (Capstone Course) | 2 |
| ASM 496 | Field Experience (Expo) | 1 |
| Supporting Courses | | |
| 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 or TL 116 | Computer Applications (May satisfy general education category S) Business Software Applications | 3 |
| 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 105 | Trigonometry (or higher) | 3 |
| PAG 115 | Introduction to Precision Agriculture | 2 |
| PHYS 211 | College Physics I (May satisfy general education category S) | 3 |
| PHYS 211L or CHEM 121L | College Physics I Laboratory (Either course may satisfy general education category S) General Chemistry I Laboratory | 1 |
| 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 one of the specialized options listed below. A minor program of study may be completed in place of an option. | | 30-38 |
| Total Credits | | 92-103 |

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 | Title | Credits |
|------|-------|---------|
|------|-------|---------|

Applied Business Option: Minimum 30 Credits

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.

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

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.

| 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 308 | Business and Professional Speaking | |
|----------|------------------------------------|--|

| | | |
|----------|---------------------------|--|
| COMM 315 | Small Group Communication | |
|----------|---------------------------|--|

| | | |
|----------------------|--|--------------|
| Total Credits | | 32-38 |
|----------------------|--|--------------|

Degree Requirements and Notes:

- Students must register for an ASM internship in the semester it is to 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. Viable minor options include: Accounting, Agribusiness, Animal Sciences, Business Administration, Construction Management, Crop & Weed Sciences, Industrial Engineering & Management, Public Relations & Advertising, or Range Science.