

# Agricultural Education Major

## Major Requirements

Degree Type: B.S.

Minimum Credits Required: 120

### University Degree Requirements

For complete details on these and other university degree requirements, refer to the Degree and Graduation Requirements (<https://catalog.ndsu.edu/academic-policies/undergraduate-policies/degree-and-graduation/>) section in the University Catalog.

1. Minimum of 120 semester credits (some programs may exceed this minimum).
2. Complete the University General Education requirements.
3. Minimum institutional GPA of 2.00 based on work taken at NDSU.
4. Minimum of 30 credits in residence at NDSU.
5. Minimum of 36 upper level credits (courses numbered 300 or higher).
6. Students with transfer credit must meet the NDSU 30 credits in residence (#4). Of these 30 credits in residence, a minimum of 15 credits must be in courses numbered 300 or above, and 15 credits must be in the student's declared major curricula.

### University General Education Requirements

A list of university approved general education courses along with the administrative policies governing the requirement and the categories is available here (<https://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/>).

| Code                                       | Title | Credits   |
|--------------------------------------------|-------|-----------|
| Category C: Communication                  |       | 12        |
| Category R: Quantitative Reasoning         |       | 3         |
| Category S: Science and Technology         |       | 10        |
| Category A: Humanities and Fine Arts       |       | 6         |
| Category B: Social and Behavioral Sciences |       | 6         |
| Category W: Wellness                       |       | 2         |
| Category D: Cultural Diversity             |       |           |
| Category G: Global Perspectives            |       |           |
| Category L: Digital Literacy               |       |           |
| <b>Total Credits</b>                       |       | <b>39</b> |

## Major Requirements

| Code                                           | Title                                                 | Credits |
|------------------------------------------------|-------------------------------------------------------|---------|
| <b>Agriculture Education Core Requirements</b> |                                                       |         |
| AGEC 242                                       | Introduction to Agricultural Management               | 3       |
| AGEC 244<br>or AGECE 350                       | Agricultural Marketing<br>Agrisales                   | 3       |
| ANSC 114                                       | Introduction to Animal Sciences                       | 3       |
| ANSC 223                                       | Introduction to Animal Nutrition                      | 3       |
| ASM 125                                        | Fabrication & Construction Technology                 | 3       |
| Select one pair from the following:            |                                                       | 4       |
| BIOL 111<br>& BIOL 100L                        | Concepts of Biology<br>and Non-Majors Biology Lab     |         |
| BIOL 124<br>& BIOL 100L                        | Environmental Science<br>and Non-Majors Biology Lab   |         |
| BIOL 150<br>& 150L                             | General Biology I<br>and General Biology I Laboratory |         |
| EDUC 322                                       | Educational Psychology                                | 3       |
| EDUC 451                                       | Instructional Planning, Methods and Assessment        | 3       |
| H&CE 232                                       | Philosophy and Policy                                 | 3       |

|          |                              |   |
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| PLSC 110 | World Food Crops             | 3 |
| SOIL 210 | Introduction to Soil Science | 3 |
| STAT 330 | Introductory Statistics      | 3 |

**Select Pathway A or B**

|                                                                                        |       |
|----------------------------------------------------------------------------------------|-------|
| Student must select Pathway A or B: A=Teacher Licensure; or B=Training and Development | 46-59 |
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| <b>Total Credits</b> | <b>83-96</b> |
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| Code | Title | Credits |
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**Pathway A - Teacher Licensure Required Courses**

|                      |  |   |
|----------------------|--|---|
| ASM or PAG Electives |  | 6 |
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| ANSC Electives (200-400 level) |  | 6 |
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| Select one CHEM pair: |  | 4 |
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|--------------------|------------------------------------------------------------------------------|--|
| CHEM 117<br>& 117L | Chemical Concepts and Applications<br>and Chem Concepts and Applications Lab |  |
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| CHEM 121<br>& 121L | General Chemistry I<br>and General Chemistry I Laboratory |  |
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| PLSC 210 | Horticulture Science | 3 |
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| PLSC 211 | Horticulture Science Lab | 1 |
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| PLSC Elective |  | 3 |
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| IME 335 | Welding Technology | 3 |
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| EDUC 321 | Introduction to Teaching | 3 |
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| EDUC 486 | Classroom Management for Diverse Learners | 3 |
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| EDUC 489 | Teaching Students of Diverse Backgrounds | 3 |
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| H&CE 444 | Advising FFA and SAE | 3 |
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|-------------|-----------------------------|--|
| or H&CE 467 | Leading Youth Organizations |  |
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|----------|-------------------------------------------------------------------------------------------|---|
| H&CE 480 | Science, Technology, Engineering & Mathematics Teaching Methods in Agricultural Education | 3 |
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| H&CE 480L | STEM Teaching Methods in Agricultural Education Lab | 1 |
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| H&CE 481 | Methods of Teaching Agriculture | 3 |
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|-----------|-------------------------------------|---|
| H&CE 481L | Methods of Teaching Agriculture Lab | 1 |
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| H&CE 483 | Student Teaching Seminar | 1 |
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| H&CE 487 | Student Teaching | 9 |
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| H&CE 488 | Applied Student Teaching | 3 |
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| <b>Total Credits</b> | <b>59</b> |
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| Code | Title | Credits |
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**Pathway B - Training and Development Required Courses**

|         |                                             |   |
|---------|---------------------------------------------|---|
| CFS 210 | Introduction to Food Science and Technology | 3 |
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| CSCI 114 | Computer Applications | 3 |
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| PLSC 225 | Principles of Crop Production | 3 |
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|----------|----------------------|---|
| H&CE 444 | Advising FFA and SAE | 3 |
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|             |                             |  |
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| or H&CE 467 | Leading Youth Organizations |  |
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| H&CE 196 |  | 3 |
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| H&CE 445 | Designing and Delivering Nonformal Education Programs | 3 |
|----------|-------------------------------------------------------|---|

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| H&CE 446 | Extension Education | 3 |
|----------|---------------------|---|

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| H&CE 496 |  | 10 |
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| AFSNR Area Focus |  |  |
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| Select courses from the following prefixes: AGECE, AGRI, ANSC, ASM, NRM, PLSC, PAG, SOIL, VETS | 15-18 |
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| <b>Total Credits</b> | <b>46-49</b> |
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**Degree Requirements and Notes**

- See the Agricultural Education website for admission requirements for the Ag Ed Teacher Certification pathway.
- Courses taken with a Pass/Fail grading basis may not be used to satisfy any degree requirement.

- A grade of 'C' or better is required in all required EDUC and H&CE courses.
- To be placed in student teaching, a 2.75 cumulative GPA and a 2.75 GPA in professional education coursework is required.
- To exit the program, a 2.75 cumulative GPA and a 2.75 GPA in professional education coursework is required, as well as completing the Praxis Subject test and the Principles of Learning and Teaching test.