

# Agricultural and Biosystems Engineering Masters

## Department Information

- **Department Web Site:**  
ndsu.edu/aben/ (<http://ndsu.edu/aben/>)
- **Application Deadline:**  
Fall international applications - May 1; Spring international applications- October 1; Domestic applications must be received at least one month prior to the start of the semester
- **Credential Offered:**  
M.S.
- **Test Requirement:**  
TOEFL ibt 79; IELTS 6.5; Duolingo 105
- **Program Overview:**  
<https://www.ndsu.edu/programs/graduate/agricultural-and-biosystems-engineering>

Apply Now ([https://ndsugrad.my.site.com/Application/TX\\_SiteLogin/?startURL=/Application/TargetX\\_Portal\\_\\_PB](https://ndsugrad.my.site.com/Application/TX_SiteLogin/?startURL=/Application/TargetX_Portal__PB))

Code	Title	Credits
<b>Didactic Course Work (601-689, 691; 700-789, 791; 800-889 and 891)</b>		<b>16</b>
ABEN 790	Graduate Seminar	
Additional Credits (as needed to complete 30 total credits)		
ABEN 798	Master's Thesis	6-10
<b>Total Credits Required</b>		<b>30</b>

Code	Title	Credits
<b>Accelerated M.S. in Agricultural and Biosystems Engineering</b>		
Students pursuing an accelerated master's degree in ABEN must complete the following requirements:		
Didactic Course Work (601-689, 691; 700-789, 791; 800-889 and 891)		20-24
ABEN 798	Master's Thesis	6-10
ABEN 790	Graduate Seminar	1-3
<b>Total Credits</b>		<b>30</b>

A maximum of 15 graduate credits earned in the accelerated degree program may be used towards the undergraduate and graduate degree.

\* Minimum of 6 credits of NDSU ABEN courses numbered 601-689, 691; 700-789, 791

## Admission and Application Requirements

- Graduate School admission and application requirements are found on the Admission Information (<http://catalog.ndsu.edu/graduate/admission-information/>) page.
- In addition, this program requires applicants to have completed the following coursework:
  - Mathematics through Differential Equations (NDSU: MATH 266 (<https://catalog.ndsu.edu/search/?P=MATH%20266>) Introduction to Differential Equations)
  - Statistics (NDSU: ME 221 (<https://catalog.ndsu.edu/search/?P=ME%20221>) Engineering Mechanics I) and Dynamics (NDSU: ME 222 (<https://catalog.ndsu.edu/search/?P=ME%20222>) Engineering Mechanics II); these two may be substituted by a calculus-based Physics I class
  - Thermodynamics (NDSU: ME 350 (<https://catalog.ndsu.edu/search/?P=ME%20350>) Thermodynamics and Heat Transfer); may be substituted with ABEN 644 (<https://catalog.ndsu.edu/search/?P=ABEN%20644>) Transport Processes, which may also count toward graduate degree
  - Fluid Mechanics (NDSU: CE 309 (<https://catalog.ndsu.edu/search/?P=CE%20309>) Fluid Mechanics or ME 352 (<https://catalog.ndsu.edu/search/?P=ME%20352>) Fluid Dynamics)
  - Physics II/Electricity and Magnetism (NDSU: PHYS 252 (<https://catalog.ndsu.edu/search/?P=PHYS%20252>) University Physics II)

- If the courses (or their equivalent) were not taken prior to matriculating at NDSU, they should be taken in addition to other coursework required for the graduate degree.
- The major adviser may appeal to the ABEN graduate committee (not the student's supervisory committee) for substitutions or waivers of these requirements.
- Students are responsible for covering the costs of undergraduate courses.