

ABEN 348 -- Agricultural Technology Exposition (1 credit), Spring 2024
Class meets in Ladd Hall 114 at 6 pm (Tentative dates on Page 4)
Expo is on Saturday, February 10, 2024

Instructor and contact information

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Office hours: T/W/F 2:00 PM – 5:00 PM and by appointment via email.

Bulletin Description

Create a display of current or emerging agricultural technology and present it to stakeholders of the department and the general public at the Ag Tech Expo.

Prerequisite

None

Textbook

None

Mode of Presentation

Lecture with PowerPoint

Required Resources

Access to a computer, a good attitude, and a poster.

Course Fee

Students will be required to purchase a banquet ticket, normally around \$20.00.

Blackboard

Blackboard will be used for announcements, and grade presentation

Course Objectives

1. To develop an introductory understanding of showing and explaining new technologies.
2. To develop and practice good communication skills.
3. To develop and practice basic responsibility for task management and completion.
4. To develop higher-level thinking by preparing show displays for public viewing and interaction.

ABET Student Outcomes

Students completing this course should demonstrate the program's educational objective B and student outcomes 3 and 5 in Table 1.

Table 1. ABEN program educational objectives and supporting student outcomes. *

Graduates are expected to have established themselves as practicing engineers who, within a few years of graduation:

A	Successfully address emerging engineering challenges in the design or evaluation of machine systems, processing systems, and natural resources and environmental systems affecting the production of food, feed, and other biobased products.
	Technical learning outcomes include student outcomes (1), (2), and (6): 1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics (a, e)† 2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors (c) 6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions (b)
B	Effectively use professional communication, critical thinking, and interpersonal skills as team leaders and team members.
	Communicational learning outcomes include student outcomes (3) and (5): 3. an ability to communicate effectively with a range of audiences (g) 5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives (d)
C	Responsibly serve the public and their employers by participating in professional development and by maintaining the highest standard of professional ethics.
	Contextual learning outcomes include student outcomes (4) and (7): 4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts (f, h, j) 7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies (i)

* See https://www.ndsu.edu/aben/about/abet_accredited/ for the current ABEN program educational objectives. See <https://www.abet.org/accreditation/accreditation-criteria/criteria-for-accrediting-engineering-programs-2021-2022/> for information on ABET student outcomes 1-7, effective as part of the "Criteria for Accrediting Engineering Programs, 2021-2022."

† ABET student outcomes (a) – (k) from the previous review cycle are included for cross-referencing only. Former student outcome (k) is implied in (1), (2), and (6).

Missing Meeting

The meeting dates are set at the beginning of the semester. All other extracurricular activities should not be scheduled on these dates. If for some **emergency reasons**, someone misses a meeting, the instructor or show managers **must** be notified **BEFORE** the meeting. Notification by e-mail or other written formats is acceptable. Missing a meeting without notifying the instructor or showing managers **BEFORE** the date will result in a **"0"** for that meeting - **no exceptions!**

Evaluation Procedures and Grading Criteria

Table 2. Students will be evaluated according with the 3 criteria in the table below.

Category	----- % of the total grade* -----
1. Meetings (four meetings, 10 pts each)	40
2. Setting up the Expo (one time, 10 points)	10
3. Expo and Banquet attendance (one time, 50 points)	50
Total	100

*Letter grades will be assigned using the following scale: A= 90.0-100%; B= 80.0-89.9%, C= 70.0-79.9%; D= 60-69.9%, and F= less than 60%.

Missing Deadline

Deadlines **cannot** be made up. For legitimate emergencies, contact the instructor or show managers before the deadline and possible allowance MIGHT be made. If you miss a deadline, your score for the deadline is **"0"**.

Missing the Expo

Students are required to present and attend the Expo for its entire duration (usually 9:00 am – 4:00 pm). **Missing the Expo is not an option.** Students who miss the Expo will receive a grade of “F”.

Veterans and Military Personnel

Veterans or military personnel with special circumstances or who are activated are encouraged to notify the instructor as early as possible.

Americans with Disabilities Act for Students with Special Needs Statement

Any students with disabilities or other special needs, who need special accommodations in this course are invited to share these concerns or requests with the instructor as soon as possible. The instructor may ask for verification and that, plus other assistance, can be requested from Disability Services in the Lower Level of the NDSU Library (231-8463)
<http://www.ndsu.edu/disabilityservices/>.

Approved Academic Honesty Statement

The academic community is operated on the basis of honesty, integrity, and fair play. [NDSU Policy 335: Code of Academic Responsibility and Conduct](#) applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the [Office of Registration and Records](#). Informational resources about academic honesty for students and instructional staff members can be found at www.ndsu.edu/academichonesty.

Honor Pledge in the College of Engineering: “On my honor I will not give nor receive unauthorized assistance in completing assignments and work submitted for review or assessment. Furthermore, I understand the requirements in the College of Engineering Honor System and accept the responsibility I have to complete all my work with complete integrity. Students who are suspected of academic dishonesty may not withdraw from the course in

which dishonesty is suspected while the case is under review by the Honor Commission (NDSU Policy 335, 5b).”

See important university dates https://www.ndsu.edu/registrar/dates/2021_2022/

Table 3. General Class Schedule

Period	Date	Topic	Unit
1	Dec. 07	1. Officer meeting	
2	14	2. Officer meeting	
3	Jan. 04	3. meeting, form deadline	
4	10	4. meeting, peer review, poster skit	10 pts
5	17	5. meeting, peer review, work	10 pts
6	24	6. meeting, poster review, work	10 pts
7	31	7. meeting, posters due deadline	10 pts
8	Feb. 07	Optional Q and A meeting	5 pts ex
9	09	Set up	10 pts
10	10	Ag. Tech. Expo. 9:00 am to 4:00 pm, banquet 5:30 pm	50 pts