

Western Illinois University – School of Agriculture
AGTM 250: Introduction to Agricultural Technology Management (3)
Course Syllabus – Spring 2023 – Sections #31 and #32
“Subject to Change”

Course Meets: Lecture: MW 2:00 – 2:50 pm in KH 152
Lab: Section #31 – T – 12:00 – 1:50 in KH 152 or KH 3B
Section #32 – T – 2:00 – 3:50 in KH 152 or KH 3B

Text: *Mechanical Technology in Agriculture* Johnson, D., 1998, Interstate Publishers Inc.

Instructor: Dr. Daniel Atherton **E-mail:** DL-Atherton@wiu.edu

Office: B 22 Knoblauch Hall **Office Phone:** 309-298-2395

Office Hours: M / W: 10:00 - 10:50 am; T: 10:00 – 11:50 am or by appointment

Course Description: 250 Intro. To Ag. Tech. Management - (3) Introduction to electrification, surveying, internal combustion engines, metallurgy, and concrete and wood construction used in agriculture.

Course Objectives:

- Understand basic concepts of small gas power engines and electrical power
- Understand basic concepts of metal and wood construction and land surveying
- Effectively demonstrate small gas power and electrical system concepts in lab setting
- Effectively demonstrate construction and surveying concepts in lab setting

Quality of Work Policy: All assignments should be word processed with title of assignment, name, date, and a summary of the assignment included at the beginning of the assignment. Run spell-checker. If completing multiple-step problems, show all work. Your work should be neat and orderly.

Academic Dishonesty: <http://www.wiu.edu/policies/acintegrity.php>

Any violation of the Academic Dishonesty Policy in Student Handbook will result in an automatic failure in the course. Plagiarism and cheating are areas of concern for this course. This course is designed to enhance your writing and presentation skills within your academic area, not the ability to copy other’s thoughts and ideas.

Attendance: Attendance is mandatory. If class is missed, please use the OARS system to report your absence (www.wiu.edu/oars). I need the email generated from this system prior to class, not after. It is the student’s responsibility to coordinate with the instructor to make up missed work. Quizzes may be given at any time and no makeup quizzes will be given unless the instructor approves the absence prior to missing class.

Safety: Safety is always **FIRST!** Students must always wear safety glasses while in the ag mech. laboratory. Students must wear the proper safety attire at all times while in the ag mech. laboratory. Students must act in the proper manner to ensure the safety of others as well as themselves.

Students Rights and Responsibilities: www.wiu.edu/provost/students/

Disruptive Student Behavior: <http://www.wiu.edu/vpas/policies/disrupst.php>

Assessment and Grading: Your final grade is based on your overall weighted percent on the following components of the course:

<u>Component</u>	<u>Percentage</u>
Exam 1	15%
Exam 2	15%
Exam 3	15%
Final Exam	30%
Quizzes	10%
Class Participation	15%

Grading Scale

A	93 – 100%	A-	90 – 92%
B+	87 – 89%	B	83 – 86%
B-	80 – 82%	C+	77 – 79%
C	73 – 76%	C-	70 – 72%
D+	67 – 69%	D	63 – 66%
D-	60 – 62%	F	< 60%

Final Grades: Unless a computational error was made, grades will not be changed after the end of the semester. Please do not come to the instructor with “extenuating circumstances” for why your grade should be changed – the semester grade represents the level of work you completed over the semester.

Late Assignments: No late assignments will be accepted unless the instructor approves of turning in an assignment late prior to the assignment’s due date. Assignments will be due at the beginning of class on their due date. Hand written assignments will not be accepted unless instructed otherwise. Assignments will be written in 12 point font with 1” margins. Points will be deducted for incorrect spelling and grammar.

ADA Compliance: “In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. For the instructor to provide the proper accommodation(s) you must obtain documentation of the need for an accommodation through Disability Resource Center (DRC) and provide it to the instructor. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. Contact Disability Resource Center (DRC) at 298-2512 for additional services.”

Attention Education Majors: The changes within the Illinois State Teaching License requirements, students are required to receive a grade of a "C-" or better in this course in order to meet state requirements. With the university's +/- grading system, receiving a grade below a "C-" will require you to retake this course or find a substitute course to meet School of Agriculture graduation requirements.

Professional Learning Environment: Please be respectful of your fellow students and the instructor and do your part to maintain the professional learning environment of this course. **Please silence your cell phones. Avoid texting during class.** Individual disruptions, such as **entering the classroom late, allowing your cell phone to ring audibly, engaging in unrelated activities (e.g., texting or surfing the web)** during class time, or **packing your belongings before class ends**, distract other students and detract from the quality of the learning environment for the whole class. Infractions will be noted and your class participation grade will suffer. The instructor reserves the right to ask for cell phones to be returned to students after the class period or to remove from group work a student who is demonstrating inadequate levels of participation.

University values, Title IX, and other federal and state laws prohibit sex discrimination, including sexual assault/misconduct, dating/domestic violence, and stalking. If you, or someone you know, has been the victim of any of these offenses, we encourage you to report this to the Title IX Coordinator at 309-298-1977 or anonymously online at: http://www.wiu.edu/equal_opportunity_and_access/request_form/index. If you disclose an incident to a faculty member, the faculty member must notify the Title IX Coordinator. The complete Title IX policy is available at: <http://www.wiu.edu/vpas/policies/titleIX>.

Tentative Schedule * Scheduling and weekly topics are subject to change at instructor's discretion *****

Dates	Topics
Week 1 (Jan. 16 - 20)	Holiday – No Class; Course Intro., requirements; Unit Conversions
Week 2 (Jan. 23 - 27)	Unit Conversions; Ag power [Lab – Micrometers]
Week 3 (Jan. 30 - 03)	Ag power; Engine primary systems [Lab – Engine components / operation]
Week 4 (Feb. 6 - 10)	Engine primary systems; Aux. systems [Lab – Engine components / operation]
Week 5 (Feb. 13 - 17)	Holiday – No Class; Aux. systems; [Lab – Engine quiz]; Review for Exam 1
Week 6 (Feb. 20 - 24)	Exam 1 (Ch. 8, 10, 11, & 12); Wood & masonry structures [Lab – Chainsaw training]
Week 7 (Feb. 27 - 03)	Wood & masonry structures; OOT – No Class; [No Lab]
Week 8 (Mar. 6 - 10)	Fabricating metals [Lab – ARC and MIG Welding]
Week 9 (Mar. 13 - 17)	Spring Break – No Class
Week 10 (Mar. 20 - 24)	Fabricating metals; Review for Exam 2 [Lab – ARC and MIG Welding]
Week 11 (Mar. 27 - 31)	Exam 2 (Ch. 17 & 18); Basics of power; [Lab – ARC/MIG Welding]; OOT – No Class;
Week 12 (Apr. 03 - 07)	Basics of Electrical power;
Week 13 (Apr. 10 - 14)	Basics of Electrical power; Receptacles [Lab – Service entrance, panels, grounding]
Week 14 (Apr. 17 - 21)	Receptacles; OOT – No Class; Switches
Week 15 (Apr. 24 - 28)	Switches; Review for Exam 3; [Lab – Receptacles and switches]
Week 16 (May 01 – 05)	Exam 3 (Ch. 2, 3, 4, & 5); Surveying; Review for Final Exam

Final Exam: KH 152, Monday, May 8th from 3:00 – 4:50 pm