

Agriculture Shop Skills
AGTM 368
Fall 2009 - Section #1
"Subject to Change"

Instructor: Dr. Andy Baker Office: KH B21 Phone: 298-1246
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Class Time: Mondays & Wednesdays 2 pm to 3 pm KH 307

Lab Time: Tuesdays & Thursdays 3 pm to 5 pm KH B1

Texts: Modern Agricultural Mechanics; Introduction to Agricultural Mechanics; Mechanical Technology in Agriculture

Course Objectives: Students will develop skills and competencies in construction processes in the following areas;

- 1) Equipment identification and maintenance
- 2) Masonry (Concrete)
- 3) Carpentry
- 4) Welding
- 5) Plumbing

Attendance: ATTENDANCE IS A MUST!!!!!!! We are professionals! Students must be prepared to interact, analyze, and discuss topics relating to course assignments. Absenteeism will impede your success on assessments and course assignments. The course is centered around classroom assignments, activities, laboratory activities, and classroom lecture. Late assignments will be deducted 5 points a day up to 25 points starting at the end of the class period for which it was due. **Please bring calculators to class!**

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

Project Costs: Students are responsible for picking up the necessary supplies to complete all laboratory projects (lumber, nails, screws, plumbing supplies, etc.). Students are also responsible for purchasing the appropriate safety attire (welding gloves, boots, long pants, long shirt, etc.)

Student Rights & Responsibilities: www.wiu.edu/provost/student/

ADA Compliance:

In accordance with University policy and the Americans with Disabilities Act (ADA), accommodations in the area of test and note-taking may be made for any student who notifies the instructor of the need for accommodation. It is imperative that you take the initiative to bring such needs to my attention, as I am legally not permitted to inquire about the particular needs of students. Furthermore, I would like also to request that students who may require special assistance in emergency evacuations (i.e., fire tornado, etc.) contact me as to the most appropriate procedures to follow in such an emergency.

Academic Dishonesty:

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.

Grading Scale: A = 90 – 100% C = 70 – 79%
 B = 80 – 89% D = 60 – 69%

Assignments:

Clean-up and Safety: You will be awarded 10 pts a day while in the laboratory setting. The 10 pts will be awarded based upon safety, work ethic, punctuality, and cleanup.

Laboratory Activities: You will be awarded points based upon the project quality as well as the submitted bill of materials needed to complete the project. Projects include welding plates, power tool project, hand tool project, masonry project, and plumbing project.

Quizzes (5 @ 10 pts): These will be unannounced quizzes distributed throughout the duration of the course on any given subject.

Exams (100 pts each / total 500 pts): There will be an exam to evaluate comprehension after each main section is completed.

Final (200 pts): A comprehensive final.

Laboratory Activities (400 pts) Project grades	400
Clean up & Safety (27 days @ 10 pts)	270
Quizzes (5 @ 20 pts)	100
Section Exam (5 @ 100 pts)	500
<u>Final (200 pts)</u>	<u>200</u>
Total Points	1470

Course Outline

August 24: Course overview

Assign:

August 26: Tool Id

Assign:

August 31: Tool Id & Bill of Materials

Assign:

September 2: Bill of Materials & Rubrics

Assign:

September 7: Labor Day No Class

Assign:

September 9: Test on Tool Id & Bill of Materials

Assign:

September 14: Concrete History & Figuring cubic yards

Assign:

September 16: Figuring cubic yards

Assign:

Due: Bill of Materials

September 21: Figuring concrete materials

Assign:

September 23: Concrete processes & tools

Assign:

September 28: Test on Concrete

Assign:

September 30: Carpentry Fasteners

Assign:

October 5: Types of Lumber & Grading of Lumber

Assign:

October 7: Insulation & Foundations

Assign:

October 12: Roof types & Shingles

Assign:

October 14: Rafters

Assign:

October 19: Carpentry Test

Assign:

October 21: National FFA Convention I am gone!

Assign:

October 26: Welding Processes (SMAW)

Assign:

October 28: Welding Processes (GTAW)

Assign:

November 2: Welding Processes (GMAW)

Assign:

November 4: Welding Processes (Brazing, Cutting, Fusion, Plasma Arc)

Assign:

November 9: Welding Processes (Brazing, Cutting, Fusion, Plasma Arc)

Assign:

November 11: Welding Test

Assign:

November 16: Plastic fittings

Assign:

November 18: Copper fittings

Assign:

November 23: Fall Break No class!

Assign:

November 25: Fall Break No class!

Assign:

November 30: Household plumbing

Assign:

December 2:Joining plastic

Assign:

December 7: Joining copper

Assign:

December 9: Plumbing Test

Assign:

December 14: Final (100 pts) Mon. Dec. 14th @ 3:00 pm