Agriculture Shop Skills
AGTM 368
$20 Lab Fee associated with this course
Fall 2012 - Section #1
"Content Subject to Change"

Instructor: Dr. Andy Baker
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Office hours: M =8am-8:50am & T-Th=1pm-2:50pm

Class Time: Mondays & Wednesdays 2 pm to 3 pm
Lab Time: Tuesdays & Thursdays 3 pm to 5 pm

Encouraged Text: 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!

Please turn off or silence cellular phones and no texting during class time or the instructor may ask for it to be returned to the student after the class period!

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), 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.”

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: Please review the plus/minus grading scale on western on-line. It is also important to note that any unexcused missed assessment, the student will be able to retake the assessment, but only 85% of the score will count.

Attention Education Majors: The changes within the state certification require all education majors to receive a grade of a "C" or better in this course in order to meet these new requirements. With the university +/- grading system, receiving a "C-" or below will require you to retake this course or find a substitute course to meet School of Agriculture graduation requirements.

Assignments:
Clean-up and Safety: You will be awarded 5 pts a day while in the laboratory setting. The 5 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 (250 pts) Project grades 250
Clean up & Safety (27 days @ 5 pts)  140
Quizzes (5 @ 20 pts)  100
Homework  100
Section Exam (5 @ 100 pts)  500
Final (200 pts)  200
Total Points  1290

Course Outline

August 20:  Course overview
Assign:
August 22:  Tool Id
Assign:
August 27:  Tool Id & Bill of Materials
Assign:
August 29:  Bill of Materials & Rubrics
Assign:
September 3: Labor Day  No Class
Assign:
September 5: Test on Tool Id & Bill of Materials
Assign:
September 10: Concrete History & Figuring cubic yards
Assign:
September 12: Figuring cubic yards
Assign:
Due:  Bill of Materials
September 17:  Figuring concrete materials
Assign:
September 19: Concrete processes & tools
Assign:
September 24: Test on Concrete
Assign:
September 26: Welding Processes (SMAW)
Assign:
October 1:  Welding Processes (GMAW)
Assign:
October 3:  Welding Processes (GTAW)
Assign:
October 8:  Welding Processes (Brazing, Cutting, Fusion, Plasma Arc)
Assign:
October 10: Welding Processes (Brazing, Cutting, Fusion, Plasma Arc)
Assign:
October 15: Welding Test
Assign:
October 17:  Components of a structure!
Assign:
October 22: Carpentry Fasteners
Assign:
October 24: Types of Lumber & Grading of Lumber
Assign:
October 29: Insulation & Foundations
Assign:
October 31: Roof types & Shingles
Assign:
November 5: Rafters
Assign:
November 7: Carpentry Test
Assign:
November 12: Plastic fittings
Assign:
November 14: Copper fittings
Assign:
November 19: Fall Break  No class!
Assign:
November 21: Fall Break  No class!
Assign:
November 26: Household plumbing
Assign:
November 28: Joining plastic
Assign:
December 3: Joining copper
Assign:
December 5: Plumbing Test
Assign:
December 10: Final  (100 pts)  Mon. Dec. 10th @ 3:00 pm