### http://kingsriverlife.com/wp-content/uploads/2014/10/reedleycollege.jpg

### *Spring 2022*

### MAG 40

### Introduction to Agricultural Mechanics

### Syllabus

**Course Name: MAG 40 Section Number: 59132 Units:** 03

**Total Contact hours: 54.00**

**Instructor:** **Ronald Sa**

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**Phone: 305-7100 x2469**

**Location: Reedley HS, rm B-1, rm 603**

**Term: Spring 2022**

**Office Hours: By Appointment Only**

**Class Meeting: M-F 12:00PM - 12:50PM**

**Course Description:** Selection, care, and use of common tools, safety, projects of wood and metal; mechanical skills in the field of agriculture. Course is taught primarily to prepare agricultural mechanics students, but skills are applicable to general agriculture. (2 lecture, 3 lab hours).

**Course Goals:**

* The student will develop an understanding of basic farm projects, materials and tools used.
* The student will be able to perform basic shop tasks commonly found in agricultural farming enterprises.

**Primary Learning Outcomes:**

The student will:

* Have an understanding of basic shop tasks commonly found in agriculture
* Be able to perform basic shop tasks common to agriculture
* Develop the ability to work safely in a shop environment
* Demonstrate their ability to layout projects from drawings
* Be able to create drawings of simple projects
* Be able to correctly identify common tools and materials
* Develop an understanding of projects and materials that will enable them to create a bill of materials for common farm or classroom projects
* Be able to solve project construction problems such as efficient use of materials, materials selection, etc.

**Secondary Learning Outcomes:**

The student will:

* Work with cold metal and perform simple tasks
* Work with plumbing materials and perform simple and assembly/repair tasks
* Work with wood and perform simple repair tasks
* Work with electrical circuit components and perform simple assembly/repair tasks
* Work with surveying instruments and perform simple tasks

**Lab Dress:** Work clothes, shop coats, or coveralls. No loose clothing. Long hair must be restrained. Closed toe shoes and pants are required. Safety glasses will be worn at all times.

**Required Lab Equipment:**

* OSHA approved Z87.1 or higher safety glasses
* Steel tape measure

**Lockers:** Lockers are available in the Agricultural Mechanics building. Provide your own lock.

**Safety:** Safety is a primary concern while working in the shop. Students that are not working in a safe manner will be required to leave the shop. This includes failure to wear adequate eye protection. You will receive instruction on the safe operation of the equipment; any unsafe operation will be dealt with accordingly. **Proof of tetanus immunization is required.**

**Required Text:**

RayHerren, Agricultural Mechanics Fundamentals & Applications, 6th edition Delmar Publishers.Students are expected to have read the assigned reading before lecture.

**Students Responsibility:**

* Students are strongly advised not to miss labs since this time may be difficult or impossible to make them up.
* No makeup’s will be allowed unless by prior permission of the instructor.
* Cleanup of the shop is part of the laboratory exercise. Students not participating in shop cleanup will have points deducted from their project grades.
* No written assignments will be accepted after 2 weeks past the due date. Late assignments are subject to a 20% penalty. No lab projects will be accepted after the final exam.
* Handouts will be given in almost every class or laboratory.

**Tentative Schedule:**

|  |  |  |
| --- | --- | --- |
|  | **LABS** | **BOOK UNITS** |
| * Week 1- | Safety/Measurement project | Units 4, 5 & 6 |
| * Week 2- | Wood Project (Nail Box) | Units 7 & 8 |
| * Week 3- | Wood Projects Continued | Units 9 & 10 |
| * Week 4- | Sheet Metal  (Measuring Gauge) | Unit 12 |
| * Week 5- | Sheet Metal (Dust Pan) | 15 & 16 |
| * Week 6- | Tool Fitting  (Sharpening Drill Bits Screwdrivers & Chisels) | Units 21 & 22 |
| * Week 7- | Surveying |  |
| * Week 8- | Electrical Wiring | Unit 33 |
| * Week 9- | Electrical Wiring/Motors and Controls | Unit 34 |
| * Week 10- | Motors and Controls | Unit 36 |
| * Week 11- | Tap and Die | Unit 13 |
| * Week 12- | Concrete and Masonry (Step Stone) | Unit 40 |
| * Week 13- | Plumbing (Sprinkler) | Unit 37 |
| * Week 14- | Plumbing (Sprinkler) |  |
| * Week 15- | Lab Make-up |  |
| * Week 16- | Google Sketch-up | Units 18, 19 & 20 |
| * Week 18- | Open |  |

\***You will be responsible for completing the multiple choice sections of all unit assignments on a scantron sheet (882) and turned in the following week.**

**Subject to Change:**

This syllabus and schedule are subject to change. If you are absent from class, it is your responsibility to check on any changes made while you were absent.

**Evaluation:**

Students will be evaluated on the basis of their performance on quizzes (announced and unannounced), written assignments, unit tests, lab projects and final examination according to the following scale.

Unit Assignments 10%

Tests & Quizzes 20%

Lab projects 40%

Final Exam 20%

Your grade in this course will be based on the following scale:

A – 90 – 100%

B – 80 – 89%

C – 70 – 79%

D – 60 – 69%

F – 59% and below

**Attendance**

Lecture: Attendance is required and roll will be taken at each class meeting. There is no difference between an “excused” or “unexcused” absence. A “tardy” is considered an absence unless the student contacts the instructor at the end of class to change the status from absent to tardy. Two tardies will count as an absence. Any student who misses more than two weeks of class meetings within the first 9 weeks of class may be dropped from the class by the instructor (i.e., class meets two times per week, 4 absences; class meets 1 time per week, 2 absences).

Lab: Attendance in all labs is mandatory. Students must make prior arrangements with the instructor to be excused from lab. At that time, the instructor will determine, if any, make-up work will be appropriate.

Quizzes: There will be no make-ups for quizzes.

Tests: Make-up tests are limited to students who have made arrangements with the instructor prior to the required testing period or those students who have been excused by High School Attendance Office. Test material is constructed from class discussions, assigned readings, guest lectures, video presentations, and special assignments. Tests will consist of true/false and multiple choice questions. Unless the student receives prior approval from the instructor, no make-up tests will be allowed.

**Grading Policy/Scales/Evaluation Criteria**

For maximum point consideration, all written assignments and term reports should be typed and double-spaced. Lecture assignments (homework) will be accepted late up to the test for that unit of the course or 2 weeks past the deadline, whichever is sooner; however, late assignments will be penalized 1/5 of the possible points. Late laboratory assignments turned in within one week of the required due date will be accepted with a penalty equal to 1/5 of the maximum points. Any lab assignment turned in after that time up to the last regular class meeting will be accepted with a 50% penalty.

**College Policies:**

**Cheating & Plagiarism**

In keeping with the philosophy that students are entitled to the best education available, and in compliance with Board Policy 5410, each student is expected to exert an entirely honest effort toward attaining an education. Violations of this policy will result in disqualification for the course.

**Cheating is:**

1. Copying someone else’s class work or letting someone copy you, when your teacher tells you that the work is to be done on your own (includes asking/telling orally).
2. Copying answers on a test or letting someone copy from your test (includes asking/telling orally).
3. Using a cheat sheet or unauthorized notes.
4. Turning in someone else’s work as your own.
5. Text messaging and multi-media messaging.

**Consequences, Per School Year:**

***1st Offense -*** The teacher shall send a referral to office. Student shall receive an “F” or zero on the work or the test and a one (1) day suspension or Saturday School, parent contact required.

***2nd Offense -*** The teacher shall send a referral to the office. The student shall receive an “F” or zero on the work or the test and a one (1) day suspension with parent contact required. Student placed on honesty contract. A high school student shall be removed to a study hall/or alternative class with a “W/F” for the semester.

***3rd Offense -*** Recommendation for transfer.

Instances of cheating need not be confined to one (1) class. Each of the three (3) offenses could happen in a different class. Any student who is transferred to a study hall/or alternative class and then required disciplinary removal from the study hall/or alternative class shall be transferred to an alternative school site/program.

Each student is expected to assist in the overall environment of the classroom making it conducive to learning.

**Accommodations for Students with Disabilities**

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact the instructor as soon as possible.

**Reedley College is committed to creating accessible learning environments consistent with federal and state law. To obtain academic adjustments or auxiliary aids, students must be registered with the DSP&S office on campus. DSP&S can be reached at (559) 638-3332.  If you are already registered with the DSP&S office, please provide your Notice of Accommodation form as soon as possible.**

**Work Ethic -** Most students are enrolled in college classes to obtain a quality job or to enhance their skills for advancement with their current employment situation. Employers look for a punctual, responsible individual who is prepared to go to work. Our goal is to replicate the workplace environment where a student can develop and demonstrate these desirable traits.

* Punctual: It is customary to arrive at least 5 minutes before work begins. Individuals will be terminated if they are not punctual.
* Responsible: It is expected than an employee works every scheduled work day. Individuals will be terminated if they are not responsible.
* Prepared: It is expected that an employee be prepared with he/she arrives for work. Students must have work shirts, safety glasses, and appropriate footwear to participate in the laboratory. If a student is not prepared, he/she cannot participate and will receive a zero (see “responsible”).

**Language -** English is expected to be spoken in class for the following reasons:

* All course content and materials are presented in English and class discussions all take place in English.
* All lab activities are conducted in groups and must have effective communication between all group members.
* Activities can be hazardous and it is vital that instructors receive feedback in English to ensure safe practices.
* This policy is designed so that instructors and all students may communicate in a common language.
* All individuals must have freedom of expression and are allowed and encouraged to communicate in the language of their choice outside of class times, including breaks.

**Behavioral Standards**

* Each student is responsible for his/her own work. Written assignments are not group assignments and no credit will be awarded for students who turn in the same work. Students suspected of cheating on tests and quizzes will receive no credit for that particular assignment and may be removed from the class.
* It is considered polite to turn off cell phones when in the classroom or shop. Please do so.
* There is no smoking, chewing tobacco, alcohol, or drugs allowed in classrooms, shops, or school vehicles.
* This class is set for the semester. All doctor’s appointments, interviews, meetings with counselor, and other types of appointments should be scheduled during your time outside of class.

**Important Dates Spring 2019**

* January 14 Start of Spring 2019 semester
* January 14 Short-term classes, first nine weeks
* January 21 Martin Luther King, Jr. Day observed (college campus closed)
* February 1 Last day to register for a Spring 2019 full-term class in person
* February 2 Last day to drop a Spring 2019 full-term class to avoid a “W”
* February 15 Lincoln Day observance (college campus closed)
* February 18 Washington Day observance (college campus closed)
* March 13 Last Day to drop a full-term class (letter grades assigned after this date)
* March 16 Short-term classes, second nine weeks
* April 14 - 19 Spring recess (college campus open)
* May 20-24 Spring 2019 final exams week
* May 24 End of Spring 2019 semester/commencement

\*\* Withdrawal (W): A student will be assigned a grade of “W” for classes dropped on or after 20 percent of the duration of the class, up to and including 50 percent of the duration of the class. After the 50 percent point, the student must receive a letter grade other than a “W” (i.e., A, B, C, D, F, I, P, NP). Check with your instructor for the deadline applicable to your class.