2016 Spring Semester – 18 weeks – January 11, 2016 to June 3, 2016

# **Intro To Ag Mechanics – MAG 40 – 3 Units**

**Unit(s):** 3 - **Weekly Lecture Hours:** 2.00

**Weekly Lab Hours:** 3.00 **Total Contact hours:** 90.00

Teacher: Ronald Sa

Department: Agriculture

School Email: sa-r@kcusd.com

School Phone: 559-305-7010 x2335

Office Hours: By appointment only

Class Room: 5A2

Location: Reedley High School

Section Number:75660

Class Meets: Monday to Friday, 10:05 am to 11:00 am

**Catalog Description:**

This course provides an introduction to the agricultural mechanics field. Instruction will be provided in the areas of safety, selection, care, and use of common tools; projects of metal, wood, electrical, and concrete will be emphasized.

**Student Learning Outcomes:**

Upon completion of this course, students will be able to:

1. Demonstrate an understanding of basic agricultural mechanics projects, materials and tools used.

2. Perform basic tasks commonly used in agricultural mechanics shops.

**Objectives:**

In the process of completing this course, students will:

1. Identify and demonstrate proper use, care, and adjustment of common and precision tools and machines found in the shop

2. Compute common shop problems regarding measuring and ordering supplies and equipment for given applications.

3. Demonstrate ability to communicate and work cooperatively with others.

4. Identify safe shop practices and potentially hazardous safety conditions in the shop.

5. Demonstrate knowledge of rope knots by tying several useful knots.

6. Prepare a simple three-dimensional drawing showing top, end, and side views.

7. Apply the techniques of sharpening and refitting common hand tools.

8. Explain the methods of painting, type of paints, their preferred uses, and cleanup procedures.

9. Select the most adequate (cost and quality) supplies (lumber, steel, materials) for a given situation – fences, buildings, etc.

10. Identify types of threads and properly use taps, dies, twist drills, and common fasteners. Measure and thread pipe, and

 correctly identify the more commonly used fittings.

11. Illustrate knowledge of concrete by forming, pouring, screeding, and finishing a slab to a proper size and slope.

12. Assemble an electrical wiring board or display as per instructions.

13. Differentiate between the four metal joining processes demonstrated in class

14. Select the proper method of joining metals and materials.

**Lab Content:**

1. Safety

2. Metal joining processes

3. Cold Metal Work

4. Woodworking

5. Sheetmetal

6. Plumbing

7. Estimating construction jobs

8. Concrete

9. Painting and finishing

10. Electrical

11. Rope work

12. Project selection and construction

# **Tentative Schedule**

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| **Week**  | **Topic/Assignment** |
| Week1 | Intro to Mechanized Agriculture and Related Careers |
| Week2 | Safety Lab |
| Week3 | Measuring, marking |
| Week4 | Metal joining processes Lab / Power tools–how to operate, adjust, and repair |
| Week5 | Cold Metal Work Lab / Surveying, squaring and leveling tools |
| Week6 | Selection and characteristics of different |
| Week7 | Woodworking Lab |
| Week8 | Woodworking Lab |
| Week9 | Sheetmetal Lab |
| Week10 | Sheetmetal Lab |
| Week11 | Operation and care of plumbing tools |
| Week12 | Plumbing Lab |
| Week13 | Estimating construction jobs Lab |
| Week14 | Concrete Lab |
| Week15 | Painting and finishing Lab |
| Week16 | Electrical Lab |
| Week 17 | Rope work Lab |
| Week 18 | Final |

**Materials Needed**

 ~ pen or pencil

 ~ note book or writing paper

 ~ binder

**Attendance:** You are required to attend **ALL class sessions**. There are NO excused absences except as defined in the Reedley College Catalog. If you are absent more than FIVE hours during the semester, you MAY be dropped from the class. If you are absent more than TEN hours, you WILL be dropped from class. If your ELEVENTH hour of absence occurs after the last day to drop, your final point total will be lowered by 25 points for each absence.

**Tardiness:** Three tardies equal one class absence.

**Grading**

The final semester grade will depend upon the accumulation of points during the semester. The points will be a result of credit received on assignments, tests and final examination. The instructor reserves the right to adjust scores as it may be required throughout the semester.

90% and above = A

80% and above = B

70% and above = C

60% and above = D

59% and below = F

**Important Dates + Holidays and Breaks**

**January 11, 2016**  Spring classes begin - full-term (18 week)

**January 18, 2016** Martin Luther King Jr. Day Holiday – the campus is closed/No CLASS

**January 29, 2016** Last day to add a full-term class

**January 31, 2016** Last day to add a full-term class on WebAdvisor

**January 31, 2016**  Last day to drop a full-term class on WebAdvisor and not receive a "W"\*\*

**February 8, 2016** Presidents’ Day Holidays – the campus is closed/No CLASS

**February 15, 2016** Presidents’ Day Holidays – the campus is closed/No CLASS

**March 11, 2016** Last day to Drop with a "W"\*\* on transcripts.

**March 21-28, 2016** Spring Break - the campus is closed/No CLASS

**June 3, 2016**  End of Spring Semester - Grades are Due

**Cancellation Class Notification**

Check high school website for any notification, Foggy Day Schedule, etc.

**Attendance Policy make ups, Extra Credits etc.**

Attendance policies as documented in the Reedley High School Handbook will be followed. Make up work is accepted with a reduced score as determined by the instructor. Extra credit may be assigned as determined by the instructor.

**Class Rules and Behavior**

Please refer to your school handbook for complete details, however some of these policies include:

* Cheating and Plagiarism
* Drug/Alcohol free campus
* Sexual harassment
* Student conduct
* Bullying

**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 must include this sentence:**

“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 me as soon as possible.”