AGRICULTURAL MECHANICS
AGMC 371-001
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Lecture/Laboratory: Monday & Wednesday, 12:40 - 2:30 p.m.

Instructor: Dr. Jack Rudolph
EST Building, Ag Dept Office
Office Phone, 745-3151
Home Phone, 781-9285

Required References:


Course Purpose:

To provide the student with practical experience and fundamental instruction in welding, metallurgy and associated areas of agricultural mechanics.

Course Objectives:

1. The student will be able to demonstrate proficient welding skills in the use of:
   a. Shielded metal arc welding (SMAW) (stick)
   b. Gas metal arc welding (GMAW) (wire)
   c. Oxy acetylene welding (OAW) (gas)

2. The student will be able to select the proper electrode for different welding conditions.

3. The student will be able to test welds for bending and tensile strength.

4. The student will also complete a number of instructed selected small agricultural mechanics laboratory activities.

Course Grading:

Because the instructional method is mainly laboratory and practical in nature, regular attendance is of high priority. Determination of the final grade will be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Exams (7)</td>
<td>350 points</td>
</tr>
<tr>
<td>Quizzes (7)</td>
<td>105 points</td>
</tr>
<tr>
<td>Welds and Activities</td>
<td>270 points</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100 points</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>825 points</strong></td>
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</tbody>
</table>

Lab Fee: $30.00

Laboratory clean up is conducted on the final day of regular class. All students are required to participate, failure to do so will result in a 10% reduction in your lecture grade.