Administrative - Master Syllabus

Course Title – Agricultural Construction 1
Course Prefix and Number – AGRI 2303

Department – Agriculture
Division – Life Sciences

Course Type: (check one)
☒ Academic General Education Course (from ACGM – but not in WCJC Core)
☐ Academic WCJC Core Course
☐ WECM course (This course is a Special Topics or Unique Needs Course: Y ☐ or N ☐)

Semester Credit Hours # : Lecture hours#: Lab/other hours # 3:2:2

EQUATED PAY HOURS FOR COURSE - 3

Course Catalog Description – Selection, use, and maintenance of hand and power tools; arc and oxyacetylene welding; and construction materials and principles.

Prerequisites/Co requisites – None

Approvals – the contents of this document have been reviewed and are found to be accurate.

Prepared by: Sean Amestoy

Signature

Date 9/3/10

Department Head: Gene Bahnson

Signature

Date 9/30/10

Division Chair: Kim Raun

Signature

Date 10/8/10

Vice President of Instruction or Dean of Vocational Instruction:
Dr. Ty Pate

Signature

Date 10/12/10
I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

### Lecture:

<table>
<thead>
<tr>
<th>Topical Outline</th>
<th>Dedicated Instructional Time</th>
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<tbody>
<tr>
<td>Taking linear measurements; using squares, levels, and lines.</td>
<td>Two weeks</td>
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<tr>
<td>Woodworking safety, woodworking hand tools, and woodworking fasteners.</td>
<td>Two weeks</td>
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<tr>
<td>Selection and usage of abrasives, stains, finishes, and wood and metal paint applications.</td>
<td>Two weeks</td>
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<tr>
<td>Selection and use of portable drills, sanders, saws, and routers.</td>
<td>Two weeks</td>
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<tr>
<td>Welding, safety, and principles of gas, arc, MIG, and TIG welding.</td>
<td>Two weeks</td>
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<tr>
<td>Principles of concrete and masonry construction, aggregate and block estimation.</td>
<td>Two weeks</td>
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<tr>
<td>Selecting plywood and treated lumber.</td>
<td>Two weeks</td>
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<tr>
<td>Farm buildings and related structures.</td>
<td>One week</td>
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</table>

### Laboratory:

1. Measurement/squaring.
2. Use of screws, nails, nuts, bolts, and glue.
3. Wood and metal sanding, preparation and painting techniques.
4. Using portable hand tools.
5. Welding equipment and safety.
6. Arc, gas, MIG, and TIG welding.
7. Concrete and masonry construction
8. Selecting plywood and treated lumber.
II. Course Learning Outcomes

<table>
<thead>
<tr>
<th>Course Learning Outcome</th>
<th>Method of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Identify layout tools used for linear measuring, leveling, and squaring.</td>
<td>1. Lecture, exams, and assignments.</td>
</tr>
<tr>
<td>2. Describe principles involved in linear measurements, squaring, leveling, etc.</td>
<td>2. Lecture, exams, and assignments.</td>
</tr>
<tr>
<td>3. Identify woodworking fasteners and hand tools.</td>
<td>3. Lecture, exams, and assignments.</td>
</tr>
<tr>
<td>4. Understand and implement the methods for using hand tools and fasteners.</td>
<td>4. Lecture, exams, and assignments.</td>
</tr>
<tr>
<td>5. Demonstrate knowledge regarding various methods of using abrasives, finishes and paints.</td>
<td>5. Lecture, exams, and assignments.</td>
</tr>
<tr>
<td>7. Understand the differences and demonstrate knowledge regarding the different types of welding such as Gas, Arc, MIG, and TIG.</td>
<td>7. Lecture, exams, and assignments.</td>
</tr>
<tr>
<td>8. Understand, identify, and demonstrate knowledge regarding the uses of application of concrete and masonry structures.</td>
<td>8. Lecture, exams, and assignments.</td>
</tr>
</tbody>
</table>

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

None required. Students will be required to obtain written material from AgEdNet.com

IV. Suggested Course Maximum - 24

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

The lecture room should include sufficient dry erase (or chalk) board for notes and illustrations, a computer with internet access and overhead computer projector, and a traditional overhead projector.

Laboratory classroom required

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Students are required to read the publications assigned to them. Throughout the semester, the students have 4 major lecture exams, attendance/participation, several quizzes and assignments.

Evaluative Procedures:

Lecture grade make up ½ of the final grade.
Lab grade make up ½ of the final grade.
Lecture grade is determined by 4 major exams and class attendance/participation, each counting for 1/5 of the total lecture grade.
Lab grade is determined by participation and satisfactory completion of lab assignments.
The grade classifications as outlined in the College Catalog are employed:

A – 90 – 100% Excellent
B – 80 – 89% Good
C – 70 – 79% Average
D – 60 – 69% Poor
F – Below 60% Failure
W – Withdrawn

VII. Curriculum Checklist

☒ - Academic General Education Course (from ACGM – but not in WCJC Core)
   No additional documentation needed

☐ - Academic WCJC Core Course
   Attach the Core Curriculum Checklist, including the following:
   • Basic Intellectual Competencies
   • Perspectives
   • Exemplary Educational Objectives

☐ - WECM Courses
   If needed, revise the Program SCANS Matrix & Competencies Checklist.