Wharton County Junior College

Administrative - Master Syllabus
COVER SHEET

***Purpose**: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.*

Course Title – Agricultural Construction I

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

List Lab/ Other Hours
Lab Hours 2
Clinical Hours
Practicum Hours
Other (list)

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 Bahnsen	Signature	Date Sept 31, 2010
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:

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

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

Course Learning Outcome	Method of Assessment
1. Identify layout tools used for linear measuring, leveling, and squaring.	1. Lecture, exams, and assignments.
2. Describe principles involved in linear measurements, squaring, leveling, etc.	2. Lecture, exams, and assignments.
3. Identify woodworking fasteners and hand tools.	3. Lecture, exams, and assignments.
4. Understand and implement the methods for using hand tools and fasteners.	4. Lecture, exams, and assignments.
5. Demonstrate knowledge regarding various methods of using abrasives, finishes and paints.	5. Lecture, exams, and assignments.
6. Understand selection and demonstrate usage of portable drills, saws, sanders, and routers.	6. Lecture, exams, and assignments.
7. Understand the differences and demonstrate knowledge regarding the different types of welding such as Gas, Arc, MIG, and TIG.	7. Lecture, exams, and assignments.
8. Understand, identify, and demonstrate knowledge regarding the uses of application of concrete and masonry structures.	8. Lecture, exams, and assignments.

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

Non e 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.