**BARTON COMMUNITY COLLEGE**

##### COURSE SYLLABUS

**FALL 2009**

## GENERAL COURSE INFORMATION

Course Number: AGRI 1212

Course Title: Commercial Drivers License
Credit Hours: 3
Prerequisite: None
Division and Discipline: Workforce Training and Community Education/Crop Protection

Course Description: This course provides necessary information to successfully acquire a Commercial Drivers License. The student will be taught skills to demonstrate proficiency while operating a commercial motor vehicle. Students will understand changing conditions, demands, traffic situations, and hazards that are essential in the professional driver’s job.

###### CLASSROOM POLICY

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The college assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

The College reserves the right to suspend a student for conduct that is detrimental to the College’s educational endeavors as outlined in the College Catalog.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. Learn the rules of, and avoid instances of, intentional or unintentional plagiarism.

Anyone seeking an accommodation under provisions of the Americans with Disabilities Act should notify Student Services.

## COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course is one course that students complete in the pursuit of attaining the Crop Protection 20 hour certificate.

# This course is not intended for transfer.

## ASSESSMENT OF STUDENT LEARNING/COURSE OUTCOMES

Barton Community College assesses student learning at several levels: institutional, program, degree and classroom. The goal of these assessment activities is to improve student learning. As a student in this course, you will participate in various assessment activities. Results of these activities will be used to improve the content and delivery of Barton’s instructional program.

Upon completion of this course students will be able to:

1. Identify, locate, and explain the function and use of the common controls and gauges on a truck tractor.
2. Explain procedures to complete vehicle inspections.
3. Discuss basic control principles necessary to operate a tractor-trailer vehicle in forward motion and reverse.
4. Identify industry-accepted standards for coupling and uncoupling two unit combination commercial vehicles.

## COURSE COMPETENCIES

1. Identify, locate, and explain the function and use of the common controls and gauges on a truck tractor.
2. Identify, locate, and explain the function of each of the primary and secondary controls on a truck tractor.
3. Identify, locate, explain, and indicate the acceptable reading range of the various instruments required to monitor vehicle and engine speed as well as the status of fuel, oil, air, cooling, exhaust, and electrical systems.
4. Explain how to read and use gauge information in making on-going decisions.
5. Explain the purpose and use of an inter-axle differential lock.
6. Explain the purpose, use, and possible consequences of improper use of engine retarders.
7. Explain procedures to complete vehicle inspections.
8. Describe a systematic procedure to assure quick and complete vehicle inspections.
9. Discuss the effect of undiscovered malfunctions upon safety, vehicle effectiveness, and economy.
10. Explain regulations governing vehicle inspections and cargo securement.
11. Discuss basic control principles necessary to operate a tractor-trailer vehicle in forward motion and reverse.
12. Locate and explain how the frame, axles, wheels and their parts, engine, drive train, and brakes operate.
13. Explain the clearance requirements of tractor-trailers of various dimensions.
14. Explain the starting, warm-up, and shut down procedures for heavy-duty truck engines.
15. Discuss modulation procedures for air brakes.
16. Explain steering techniques to track a combination vehicle in lane and drive a straight line.
17. Illustrate the proper position from which a combination vehicle should begin a turn, and how to set-up, execute and recover from a turn.
18. Explain proper hand placement on the steering wheel.
19. Explain shifting procedures and patterns for different transmissions.
20. Discuss the effects of speed on the rig’s weight, the rig’s center of gravity and the rig’s stability.
21. Explain instruments and controls necessary to shift gears.
22. Discuss common shifting errors and their consequences.
23. Explain which gear most likely will be the best choice for various highway, traffic, turning, and terrain conditions.
24. Explain the importance of matching RPM’s with MPH in shifting.
25. Explain proper mirror adjustment and use.
26. Explain procedures for backing a tractor-trailer combination in a straight line and along a curved path.
27. Identify and explain hazards of backing and discuss possible alternative strategies.
28. Identify industry-accepted standards for coupling and uncoupling two unit combination commercialvehicles.
29. Explain coupling and uncoupling procedures according to the states commercial driver’s manual’s specifications.
30. Explain the hazards of coupling and uncoupling improperly.

## INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

Students are individually responsible for:

1. Awareness and comprehension of all course material requirements and assignments presented in this syllabus.
2. Awareness and adherence to all deadlines for the completion of assignments as announced.
3. Awareness of test dates and times as announced.
4. Awareness of adherence to all college policies and regulations regarding academic conduct and social conduct.
5. Awareness and comprehension of substantive material presented in lectures, discussions, handout materials and assigned readings.

## TEXTBOOKS AND OTHER REQUIRED MATERIALS

### REFERENCES

### METHODS OF INSTRUCTION AND EVALUATION

## ATTENDANCE REQUIREMENTS

## COURSE OUTLINE