# 7/23/2020

# brcc keystone logo

Baton Rouge Community College

*Academic Affairs Master Syllabus*

Date Approved: 3 September 2020

Term and Year of Implementation: Spring 2021

**Course Title:** Truck Advanced Electrical

**BRCC Course Rubric:** DHTT 1614

**Previous Course Rubric**:

**Lecture Hours per week-Lab Hours per week-Credit Hours**: 1-6-4

**Per semester: Lecture Hours-Lab Hours-Instructional Contact Hours**: 15-90-105

**Louisiana Common Course Number:**

**CIP Code:** 47.0613

**Course Description:** Provides advanced coverage of electrical/electronic system diagnostic techniques, troubleshooting of medium/heavy truck electrical systems, schematic utilization, and supplemental restraint system (SRS) operation. The course meets a portion of the standards set by the National Institute for Automotive Service Excellence (ASE) for certification T6 (electrical/electronics) and also addresses a portion of the advanced electrical/electronic tasks list required by the National Institute for Automotive Service Excellence (ASE).

**Prerequisites:**  DHTT 1803 and DHTT 1903

**Co-requisites:** DHTT 1304

**Suggested Enrollment Cap:** 20

**Learning Outcomes.** *Upon successful completion of this course, the students will be able to:*

1. Demonstrate knowledge of the principles of electronics and electronic circuit design as related to the medium/heavy truck industry.

2. Analyze medium/heavy truck gauges, warning devices, and computer systems.

3. Service medium/heavy truck gauges, warning devices, and computer systems.

4. Demonstrate safe work practices appropriate for electrical applications.

5. Demonstrate the math, writing, science, and interpersonal skills needed to become a successful medium/heavy truck technician.

**Assessment Measures.** Assessment of all learning outcomes will be measured using the following methods:

1. Assessment measures may include, but are not limited to presentations, collaborative projects, in-class activities, observations, skill performances, class participation, lab reports, lab activities, homework, assignments, quizzes, written exams, and industry-standard proficiency exams.

**Information to be included on the Instructor’s Course Syllabi:**

* ***Disability Statement*:** Baton Rouge Community College seeks to meet the needs of its students in many ways. See the Office of Disability Services to receive suggestions for disability statements that should be included in each syllabus.
* ***Grading:*** The College grading policy should be included in the course syllabus. Any special practices should also go here. This should include the instructor’s and/or the department’s policy for make-up work. For example in a speech course, “Speeches not given on due date will receive no grade higher than a sixty” or “Make-up work will not be accepted after the last day of class”.
* ***Attendance Policy*:** Include the overall attendance policy of the college. Instructors may want to add additional information in individual syllabi to meet the needs of their courses.
* ***General Policies*:** Instructors’ policy on the use of things such as beepers and cell phones and/or hand held programmable calculators should be covered in this section.
* ***Cheating and Plagiarism*:** This must be included in all syllabi and should include the penalties for incidents in a given class. Students should have a clear idea of what constitutes cheating in a given course.
* ***Safety Concerns:*** In some courses, this may be a major issue. For example, “No student will be allowed in the lab without safety glasses”. General statements such as, “Items that may be harmful to one’s self or others should not be brought to class”.
* ***Library/ Learning Resources:*** Since the development of the total person is part of our mission, assignments in the library and/or the Learning Resources Center should be included to assist students in enhancing skills and in using resources. Students should be encouraged to use the library for reading enjoyment as part of lifelong learning.

**Expanded Course Outline:**

1. Career Professionalism

a. Writing skills for medium/heavy truck technicians

b. Applied math and science for medium/heavy truck technicians

c. Interpersonal skills for medium/heavy truck technicians

2. Diagnosis of medium/heavy electrical/electronic systems

3. Repair of medium/heavy truck gauges and warning devices

4. Service of medium/heavy truck computer systems

5. Repair of active restraint systems