# 8/11/2020

# brcc keystone logo

Baton Rouge Community College

*Academic Affairs Master Syllabus*

Date Approved: 1 September 2020

Term and Year of Implementation: Fall 2020

**Course Title:** Mechanical and Electrical Systems

**BRCC Course Rubric:** CMGT 2253

**Previous Course Rubric**: CMGT 225

**Lecture Hours per week-Lab Hours per week-Credit Hours**: 3-0-3

**Per semester: Lecture Hours-Lab Hours-Instructional Contact Hours**: 45-0-45

**Louisiana Common Course Number:**

**CIP Code:** 52.2001

**Course Description:** Introduces mechanical and electrical systems and their relationship to residential and commercial construction.

**Prerequisites:** CMGT 1103 (or CMGT 110) and CMGT 1213 (or CMGT 121) with grades of ‘C’ or better

**Co-requisites:** None

**Suggested Enrollment Cap:** 30

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

1. Apply knowledge of electrical, plumbing, and heating, ventilating, and air conditioning (HVAC) systems in the management of construction projects.

2. Communicate the importance of life safety in the construction and maintenance of buildings.

3. Demonstrate coordination of mechanical and electrical systems in the building process.

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

The student will be assessed using the following measures based upon a common grading method, scale, and rubric:

1. Assignments, quizzes, unit exams, and lab exercises2. A departmental final exam

**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:**

I. Heating, Ventilating, and Air Conditioning (HVAC) Fundamentals and Delivery Systems

II. Cooling and Heating Equipment and Systems

III. Piping and Plumbing Systems

IV. Fire Protection Systems

V. Communication Systems

VI. Life Safety and Security Systems

VII. Power Equipment and Systems

VIII. Lighting