

# SYLLABUS

**DIVISION:** Business and Engineering Technology

**REVISED:** Spring/2013

**CURRICULA IN WHICH COURSE IS TAUGHT:**

Air Conditioning & Refrigeration

**COURSE NUMBER AND TITLE:**

Air 232-01 Circuits and Controls V

**CREDIT HOURS:** 3 **HOURS/WK LEC:** 2 **HOURS/WK LAB:** 3 **LEC/LAB COMB:** 5

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**I. CATALOG DESCRIPTION:** Presents application and design of wiring and schematic diagrams for air conditioning systems and commercial refrigeration systems.

**II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:**

- To develop in the student an ability to understand the application, read, design wiring and schematic diagrams of commercial refrigeration systems, air conditioning systems and heat pump systems.

**III. REQUIRED BACKGROUND/PREREQUISITIES:**

AIR 231

**IV. COURSE CONTENT:**

- Electrical components of different refrigeration systems
- Electrical components of different air conditioning systems
- Electrical components of heat pump systems

**V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE**

- Communications
- Learning Skills
- Critical Thinking
- Understanding Science and Technology

**VI. LEARNER OUTCOMES**

**VII. EVALUATION**

<b>Sources of energy</b> <ul style="list-style-type: none"><li>Studying the different sources of energy available to us.</li><li>Ability to understand the different methods of using our energy</li></ul>	Written Test Hands on Training
<b>Energy independence</b> <ul style="list-style-type: none"><li>Understanding the different ways to wean ourselves from non-renewable energy</li></ul>	Written Test Written reports
<b>Renewable energy</b> <ul style="list-style-type: none"><li>Understanding the different sources of renewable energy</li></ul>	Lab Exercises Written Exercises In class assignments

## **COURSE OUTLINE**

### **COURSE SECTION NUMBER/TITLE:**

AIR 232-01 Circuits and Controls V

### **COURSE PREREQUISITE(S):** AIR 134

**SEMESTER:** Spring

**INSTRUCTOR:** Mark Bryant

**OFFICE NO:** Hill Building 116

**OFFICE HOURS:** Posted

**TELEPHONE:** O# (434) 797-8473; email: [mbryant@dcc.vccs.edu](mailto:mbryant@dcc.vccs.edu) c#(434) 250-7800

### **TEXTBOOKS, OTHER REFERENCE MATERIALS:**

Electricity for Refrigeration, Heating and Air Conditioning

### **ATTENDANCE REQUIREMENTS:**

1. Tests are announced (5) days before tests are given. Tests missed may be made up ONLY if the absence is approved by instructor.
2. Make-up policy: The student must see the instructor the day he/she returns to class for an approved absence at which time a make-up test will be scheduled at the instructor's convenience.
3. Quizzes are not announced and are not made up.
4. Homework assignments will lose 1 point/class when turned in late.
5. Lab grade will be given for daily work and participation in class ( $\frac{1}{2}$  point/1 hour lab).

### **COURSE GRADE PROCEDURES:**

		<b>Total Points</b>
1.	Grading System:	Daily Grade (attendance) & Homework 25%
		Test Grades 50%
		Exam 25%
2.	Letter Grades:	A = 100-91
		B = 90-81
		C = 80-71
		D = 70-61
		F = 60 or below

### **STUDENTS WITH SPECIAL NEEDS:**

Danville Community College is committed to meeting the needs of all students and providing access for persons with disabilities. Reasonable accommodations are available to those students with diagnosed disabilities. Students with diagnosed disabilities wishing to receive specific accommodations must be registered with the Disability Services. For more information, please contact Laura Daniel, Counselor and ADA Coordinator, at 797-8572 or ldaniel@dcc.vccs.edu

### **CELL PHONE POLICY**

All cell phones in class should be turned off before entering the classroom. For emergency phone calls only, place on vibrate.

### **COLLEGE ATTENDANCE POLICY:**

When absence from a class becomes necessary, it is the responsibility of the student to inform the instructor prior to the absence, whenever possible. The student is responsible for making up all work missed during an absence. It is the philosophy of Danville Community College that student and faculty interactions are critical to the learning process. Class attendance enhances this process. Regular attendance is thus expected of students. Students missing twenty-five percent (25%) or more of the total time allocated for classes and or labs may be administratively withdrawn from the class upon recommendation of the instructor. Students who are administratively withdrawn prior to completion of 60% of the class will be issued a grade of "W." After that point, students who are administratively withdrawn will be issued a grade of "F."

**\*\*\*\*Students who are receiving financial aid, please note:\*\*\*\***

#### **Continuous Alert**

If a faculty member submits a continuous alert for a student because of poor attendance, disbursement of financial aid proceeds by check will be blocked until each faculty member submitting such an alert has given Admissions permission to remove the alert. In addition to blocking the check request, a continuous alert blocks enrollment for future semesters until the block is removed.

#### **No Shows**

If a student never attends a class or only attends one time before the refund deadline, the student will be considered a "no show" and withdrawn from the class. Faculty will report "no shows" to the division office by the refund deadline for all classes they teach.
