Eastfield College  
Career Technologies’ Division

Spring 2013  
DC Circuits, CETT 1403.43001 4cr.hrs.  
Room L 107 Monday & Wednesday 10:50 A.M-1:30 P.M

Instructor: Dr. Chuck Dale  
Contact Information:  
Office: L-103  
Phone: 972-860-7670  
Email address: cdale@dccc.edu  
Fax: 972-860-7085  
Hours Available: See Posted Office Hours call for Appointment

Course Description (from Eastfield Catalog):  
A study of the fundamentals of direct current including Ohm’s law, Kirchhoff’s laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements. This course is cross-listed as CETT 1303. The student may register for either CETT 1403 or CETT 1303, but may receive credit for only one of the two. (3 Lec., 3 Lab.)

Textbooks and Other Course Materials:  
**TI-36 Solar Scientific Calculator** or **TI-30XA Scientific**  
Access to the internet is required

Developmental Courses

The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student’s basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college-level classes such as English 1301/1302, History 1301/1302, Math 1414, etc. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. In some cases retesting will also be required. It is up to each student to be aware and informed about requirements that are subject to change. Additional information is available from the TSI Office.  
[https://www1.dcccd.edu/cat0910/admiss/tsi.cfm?loc=4](https://www1.dcccd.edu/cat0910/admiss/tsi.cfm?loc=4)
Course Objectives:

1. Identify common symbols with their physical counterpart.
2. Learn to read and connect schematics.
3. Learn how to connect up amp meter, Voltmeter, ohm meter.
4. Learn to calculate basic ohm law problems
5. Learn to troubleshoot series circuit.
6. Learn to troubleshoot parallel circuits.
7. Identify Series, Parallel and Series-parallel circuits.
8. Identify wattage and formula to calculate

Evaluation Procedures:

<table>
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<tr>
<th>Grading:</th>
<th>Grade Distribution:</th>
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<tr>
<td>Exams = 55%</td>
<td>A= 90 to 100</td>
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<tr>
<td>Labs = 30%</td>
<td>B= 80 to 89</td>
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<td>Final Exam = 15%</td>
<td>C= 70 to 79</td>
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<td>D= 60 to 69</td>
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<td>F= Below 60</td>
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Obtaining Final Course Grades Using eConnect

Final Grade Reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office.

Eastfield College Email Policy

Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to: http://www.dcccd.edu/netmail/home.html

Financial Aid Statement

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Financial Aid Statement for Distance Learning Classes

If you are receiving Financial Aid grants or loans and are enrolled in a Distance Learning class, you must show participation in this class prior to the certification date by either e-mailing or contacting the instructor or logging on to eCampus. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds.
## Course Outline:

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<th>Lesson</th>
<th>Course Introduction</th>
<th>Chapter</th>
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<tr>
<td>1</td>
<td>Lesson 1</td>
<td>Introduction to Electricity</td>
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<td>Lesson 2</td>
<td>Voltage, Current, and Resistance</td>
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<td>Lesson 3</td>
<td>Scientific Notation</td>
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<tr>
<td>3</td>
<td>Lesson 3 con’t.</td>
<td>Scientific Notation</td>
<td>3</td>
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<tr>
<td>4</td>
<td>Lesson 3 con’t.</td>
<td>Scientific Notation</td>
<td>3</td>
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<td></td>
<td>Lesson 4</td>
<td>Ohm’s Law</td>
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<td>5</td>
<td>Lesson 4 con’t.</td>
<td>Ohm’s Law</td>
<td>4</td>
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<tr>
<td>6</td>
<td>Lesson 5</td>
<td>Series Circuits</td>
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<tr>
<td>7</td>
<td>Lesson 5 con’t.</td>
<td>Series Circuits</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>Lesson 6</td>
<td>Introduction to Parallel Circuits</td>
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<td>9</td>
<td>Lesson 7</td>
<td>Parallel Circuit Analysis</td>
<td>7</td>
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<tr>
<td>10</td>
<td>Lesson 7 con’t.</td>
<td>Parallel Circuit Analysis</td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>Lesson 8</td>
<td>Parallel-Series Circuits &amp; Series Parallel Circuits combined</td>
<td>8&amp;9</td>
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<tr>
<td>12</td>
<td>Lesson 9</td>
<td>Parallel-Series Circuits &amp; Series Parallel Circuits combined</td>
<td>8&amp;9</td>
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<td>Lesson 10</td>
<td>Complex Circuit Analysis</td>
<td>10</td>
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<td>Lesson 11</td>
<td>Power</td>
<td>10</td>
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<td>Review</td>
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<td>Final Exams</td>
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### ADA Statement

If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office in C237, 972-860-8348 or go to http://www.eastfieldcollege.edu/SSI/DSO/index.html
Attendance Policy:

You are expected to attend regularly all classes in which you enroll. You have the responsibility to attend class and to consult with the instructor when an absence occurs. Instructors are responsible for describing attendance policies and procedures to you. If you are unable to complete a course (or courses) in which you are enrolled, it is your responsibility to withdraw from the course by the appropriate date. If you do not withdraw, you will receive a performance grade, usually a grade of "F". Under Texas Education Code, Section 51.911, all institutions of higher education shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. If a student and an instructor disagree about the nature of the absence being for the observance of a religious holy day, or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the President of the institution or his or her designee. The student and instructor shall abide by the decision of the chief executive officer or his/her designee.

Repeating This Course: (Third Attempt to Enroll in a Course)

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Academic Honesty Statement

Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student’s test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work. Collusion is the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. Academic dishonesty is a serious
offense in college. You can be given a failing grade on an assignment or test, can be failed for the class, or you can even be suspended from college.

**Food and Drink Policy**

Food, drinks, and tobacco products are prohibited in Eastfield College classrooms.

**Religious Holidays**

Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within a reasonable time after the absence.

**Withdrawal Policy**

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by April 18, 2013 (R). Failure to do so will result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office.

**STOP BEFORE YOU DROP**

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: [https://www1.dcccd.edu/coursedrops](https://www1.dcccd.edu/coursedrops)

**Family Educational Rights and Privacy Act of 1974 (FERPA)**

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.
Classroom Etiquette

It is expected that each student will respect every other student in the class. By this statement it is expected of each student to be cognizant of other students’ desire to learn and do nothing that will divert attention from this goal. Late arrivals to class will get to their seat in the least disruptive fashion possible. Continual tardiness will be dealt with on an as-needed basis. Basic rules of courtesy will be observed (no talking while others are talking, each student will wait his or her turn to be recognized). Cell phones, PDAs, laptops, and desktop computers should not be used during class time except as needed for instructional purposes. Please silence all cell phones, PDA’s and iPod’s during class sessions. If you are late to class, please come in quietly and take your seat. Do not make a habit of arriving late since this can be distracting to other students. If you must leave early, please let the instructor know prior to class. Excessive tardiness or leaving early may affect your final grade since class participation is important.

The instructor reserves the right to amend this syllabus as necessary.