



**ELCR-1010 Direct Current Circuits**  
**COURSE SYLLABUS**  
**Traditional**  
**Fall Semester 2017**

**COURSE INFORMATION**

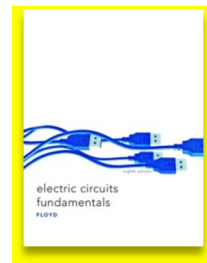
Credit Hours/Minutes: 6 Hours / 5250 Minutes  
Class Location: RMTC, Room 827, Vidalia Campus  
Class Meets: Monday through Thursday (MTWR), 9:00 AM to 10:15 AM  
CRN: 20025  
Preferred Method of Contact: Text or Email to Instructor

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: William (Chip) Greene  
Office Location: RMTC Room 822, Vidalia Campus  
Office Hours: Monday through Thursday, 10:30 AM to Noon, 1:00 PM to 3:00 PM  
Email Address: [wgreene@southeasterntech.edu](mailto:wgreene@southeasterntech.edu)  
Phone: (912) 538-3102  
Fax Number: (912) 538-3106

**REQUIRED TEXT**

*Electric Circuit Fundamentals, 8<sup>th</sup> ed.*  
by Thomas L. Floyd,  
published by Prentice Hall,  
ISBN# 0-13-507293-X



**REQUIRED SUPPLIES & SOFTWARE**

Engineering / Scientific Calculator

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**COURSE DESCRIPTION**

Introduces Direct Current (DC) circuit concepts and applications.

**PREREQUISITE(S)**

MATH 1012 (out of program), MATH 1013 (diploma), or MATH 1111 (diploma/degree)

## **MAJOR COURSE COMPETENCIES / COURSE OUTLINE**

1. Laboratory Procedures and Safety Practices
2. Electrical Laws and Principles
3. DC Test Equipment
4. Basic Series, Parallel, and Combination Circuits
5. Complex Series and Parallel Circuits
6. DC Theorems

## **GENERAL EDUCATION CORE COMPETENCIES**

STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

## **STUDENT REQUIREMENTS (TRADITIONAL)**

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the STC E-Catalog. All online students must pledge that they have read and understand the STC Online Orientation within the first five days of class. Online students are responsible for checking e-mails and Blackboard announcements DAILY.

## **ATTENDANCE GUIDELINES**

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

## **SPECIAL NEEDS**

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), to coordinate reasonable accommodations.

## **SPECIFIC ABSENCES**

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty,

court duty, or required job training will be made at the discretion of the instructor.

## **PREGNANCY**

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

## **WITHDRAWAL PROCEDURE**

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

**Remember** - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

## **MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)**

Students are required to take all tests and complete all assignments scheduled during the semester. Failure to take Tests/Exam(s) and complete assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. Note: If student notifies instructor about exam problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the exam. No exceptions! Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given. ALL Assignments are due according to the lesson plan.

## **ACADEMIC DISHONESTY POLICY**

The STC Academic Dishonesty Policy states All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the STC Catalog and Student Handbook.

## **PROCEDURE FOR ACADEMIC MISCONDUCT**

The procedure for dealing with academic misconduct and dishonesty is as follows:

### **1. First Offense**

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in

course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

**2. Second Offense**

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

**3. Third Offense**

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

**STATEMENT OF NON-DISCRIMINATION**

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member or citizenship status (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<b>ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer</b>	<b>Title VI - Title IX (Employees) - EEOC Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

**GRIEVANCE PROCEDURES**

Grievance procedures can be found in the Catalog and Handbook located on STC's website.

**ACCESS TO TECHNOLOGY**

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [STC website](#).

**TCSG GUARANTEE/WARRANTY STATEMENT**

*The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

## GRADING POLICY

Assessment/Assignment	Percentage
Exams	30%
Homework	10%
Laboratories	20%
Study Guides	5%
Final Exam*	35%

## GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

### **\*\*Disclaimer Statements\*\***

- (1) Instructor reserves the right to change the syllabus and/or lesson plan as necessary.
- (2) The official copy of the syllabus is located inside the student's online course shell or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.

### **\* ELECTRONICS COMPETENCY EXAMS:**

The ELCR-1010 Final Exam is the **ESA Part I – Direct Current Circuits Exam**. The cost for taking this exam is **\$35** payable to the STC Business Office before the last week of the semester. Please plan for this cost to complete the Direct Current series of classes successfully. A grade of 75% or higher on this exam will result in the student being awarded their ESA I certificate from the ISCET.

No minimum grade is required for this exam; however, this exam will carry a **35% grading weight**. Poor performance on this exam could result in a final class grade of <70 out of 100 which will require the student to retake ELCR-1010.

Upon successful completion of all four parts of the ESA exams (i.e.  $\geq 75\%$  on ESA I through IV exams), the student is awarded their Associate CET Certificate from the ISCET.

Students who wish to retake any ESA Exam in order to improve their grades to receive their Associate CET Certificate can do so at a cost of \$15 per exam within two years of the original purchase of their test voucher for that exam.

# ELCR-1010 Direct Current Circuits

## Fall Semester 2017 Lesson Plan

### WEEK 1

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 14	1.1, 1.2	Class Introduction – Syllabi, Outline, Work Ethics, Rules, and Regulations Coverage <b>Section 1.1 – Scientific &amp; Eng Notation</b> <b>Section 1.2 – Units &amp; Metric Prefixes</b>	<b>Read Sections 1.1 &amp; 1.2</b> [On Blackboard] Read / Review <b>START HERE</b> information POST to appropriate <b>Message Boards</b>	1, b,c
15	1.1, 1.2	<b>Section 1.1 – Scientific &amp; Eng Notation</b> <b>Section 1.2 – Units &amp; Metric Prefixes</b>	<b>Do Section 1.1 &amp; 1.2 Reviews</b> <b>Read Sections 1.3 &amp; 1.4</b> <b>Watch Chapter 1 Video F-13</b>	1, a,b,c
16	1.3	<b>Section 1.3 – Metric Unit Conversions</b>	<b>Do Section 1.3 &amp; 1.4 Reviews</b> <b>Read Section 1.5</b>	1, a,b,c
17	1.4, 1.5	<b>Section 1.4 – Measured Numbers</b> <b>Section 1.5 – Electrical Safety</b>		1, b,c

### WEEK 2

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 21	1	<b>LabVolt – Trainer Familiarization</b>	<b>Watch Chapter 1 Videos DE-22 Series</b>	1, a,b,c
22	1	<b>Chapter 1 Review</b>	<b>Complete Chapter 1 Homework</b> <b>Complete Chapter 1 Study Guides</b>	1, b,c
23	1	<b>Chapter 1 Test</b>	<b>Read Sections 2.1 &amp; 2.2</b>	1, a,b,c
24	2.1, 2.2	<b>Section 2.1 – Atoms</b> <b>Section 2.2 – Electrical Charge</b>	<b>Do Section 2.1 &amp; 2.2 Reviews</b> <b>Read Sections 2.3, 2.4 &amp; 2.5</b> <b>Watch Chapter 2 Videos DE-12 Series</b>	2,7, a,b,c

### WEEK 3

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Aug 28	2.3 – 2.5	<b>Section 2.3 – Voltage</b> <b>Section 2.4 – Current</b> <b>Section 2.5 – Resistance</b>	<b>Do Section 2.3, 2.4 &amp; 2.5 Reviews</b> <b>Read Sections 2.6 &amp; 2.7</b>	2,7, a,b,c
29	2.3 – 2.5	<b>LabVolt – Electronic Quantities</b>		2,3,7, a,b,c
30	2.6, 2.7	<b>Section 2.6 – The Electric Circuit</b> <b>Section 2.7 – Basic Circuit Measurements</b>	<b>Do Section 2.6 &amp; 2.7 Reviews</b> <b>Watch Chapter 2 Videos DE-10 Series</b>	2,3,7, b,c
31	2.6, 2.7	<b>LabVolt – Switches &amp; Concepts</b>		2,3,7, a,b,c

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 4		<b>HOLIDAY – LABOR DAY</b>	<b>HOLIDAY – LABOR DAY</b>	

#### WEEK 4

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 5	2	Chapter 2 Review	<b>Complete Chapter 2 Homework</b> <b>Complete Chapter 2 Study Guides</b>	2,3,7, b,c
6	2	<b>Chapter 2 Test</b>	Read Sections 3.1 & 3.2	2,3,7, a,b,c
7	3.1, 3.2	Section 3.1 – Ohm’s Law Section 3.2 – Application of Ohm’s Law	Do Section 3.1 & 3.2 Reviews Read Sections 3.3 & 3.4 Watch Chapter 3 Video DE-12	2,3,7, a,b,c
11	3.3, 3.4	Section 3.3 – Energy & Power Section 3.4 – Power in an Electric Circuit	Do Section 3.3 & 3.4 Reviews Read Sections 3.5 & 3.6 Watch Chapter 3 Video F-13	2, a,b,c

#### WEEK 5

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 12	3.1 – 3.4	<b>LabVolt – Ohm’s Law</b>		2,3,7, a,b,c
13	3.5, 3.6	Section 3.5 – Power Rating of Resistors Section 3.6 – Energy Conversion and Voltage Drop in a Resistance	Do Section 3.5 & 3.6 Reviews Read Sections 3.7 & 3.8	2, a,b,c
14	3.7, 3.8	Section 3.7 – Power Supplies Section 3.8 – Intro to Troubleshooting	Do Section 3.7 & 3.8 Reviews	2,3, a,b,c
18	3	Chapter 3 Review	<b>Complete Chapter 3 Homework</b> <b>Complete Chapter 3 Study Guides</b>	2,3,7, b,c

#### WEEK 6

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 19	3	<b>Chapter 3 Test</b>	Read Sections 4.1 & 4.2	2,3,7, a,b,c
20	4.1, 4.2	Section 4.1 – Resistors in Series Section 4.2 – Total Series Resistance	Do Section 4.1 & 4.2 Reviews Read Sections 4.3, 4.4 & 4.5 Watch Chapter 4 Videos DE-16 Series	2-4,7, a,b,c
21	4.3 – 4.5	Section 4.3 – Current in a Series Circuit Section 4.4 – Applications of Ohm’s Law Section 4.5 – Voltage Sources in Series	Do Section 4.3, 4.4 & 4.5 Reviews Read Sections 4.6 & 4.7 Watch Chapter 4 Video F-13	2-4,7, a,b,c

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
25	4.6, 4.7	Section 4.6 – Kirchoff’s Voltage Law Section 4.7 – Voltage Dividers	Do Section 4.6 & 4.7 Reviews Read Sections 4.8, 4.9 & 4.10	2,4, 7, a,b,c

### WEEK 7

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Sept 26	4.8 – 4.10	Section 4.8 – Power in Series Circuits Section 4.9 – Voltage Measurements Section 4.10 – Troubleshooting	Do Section 4.8, 4.9 & 4.10 Reviews	2,4, 7, a,b,c
27	4	LabVolt – Series Resistive Circuits		3,4, a,b,c
28	4	Chapter 4 Review	Complete Chapter 4 Homework Complete Chapter 4 Study Guides	4, a,b,c
Oct 2	4	Chapter 4 Test	Read Sections 5.1 & 5.2	4, a,b,c

### WEEK 8

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 3	5.1, 5.2	Section 5.1 – Resistors in Parallel Section 5.2 – Total Parallel Resistance	Do Section 5.1 & 5.2 Reviews Read Sections 5.3 & 5.4 Watch Chapter 5 Video DE-16	4, a,b,c
4	5.3, 5.4	Section 5.3 – Voltage in a Parallel Circuit Section 5.4 – Application of Ohm’s Law	Do Section 5.3 & 5.4 Reviews Read Sections 5.5 & 5.6	4, a,b,c
5	5.1 – 5.4	LabVolt – Parallel Resistive Circuits		3,4, a,b,c
9	5.5, 5.6	Section 5.5 – Kirchoff’s Current Law Section 5.6 – Current Dividers MID-TERM (for Full Term)	Do Section 5.5 & 5.6 Reviews Read Sections 5.7 & 5.8 Watch Chapter 5 Video F-13	4, a,b,c

### WEEK 9

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 10	5.7, 5.8	Section 5.7 – Power in Parallel Circuits Section 5.8 – Troubleshooting	Do Section 5.7 & 5.8 Reviews	4, b,c
11	5	Chapter 5 Review	Complete Chapter 5 Homework Complete Chapter 5 Study Guides	4, b,c
12	5	Chapter 5 Test	Read Sections 6.1 & 6.2	4, a,b,c
16	6.1, 6.2	Section 6.1 – Identifying Series- Parallel Section 6.2 – Analysis of Series- Parallel	Do Section 6.1 & 6.2 Reviews Read Sections 6.3 & 6.4	4, b,c



**WEEK 10**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 17	<b>6.3, 6.4</b>	<b>Section 6.3 – Voltage Dividers w/ Loads Section 6.4 – Loading Effect of Voltmeters</b>	<b>Do Section 6.3 &amp; 6.4 Reviews</b>	4, b,c
18	<b>6.1 – 6.4</b>	<b>LabVolt – Series/Parallel Resistive Circuit</b>		3,4, a,b,c
19	<b>6.1 – 6.4</b>	<b>Chapter 6: Series-Parallel Circuits - Sections 6.1 - 6.4 Test</b>	<b>Read Section 6.5</b>	4, a,b,c
23	<b>6.5</b>	<b>Section 6.5 – The Wheatstone Bridge</b>		5, b,c

**WEEK 11**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 24	<b>6.5</b>	<b>Section 6.5 – The Wheatstone Bridge</b>	<b>65% Point for Full Term Fall Semester</b>	5, b,c
25	<b>6.5</b>	<b>Section 6.5 – The Wheatstone Bridge</b>	<b>Read Section 6.6 Do Section 6.5 Review</b>	5, a,b,c
26	<b>6.6</b>	<b>Section 6.6 – Thevenin’s Theorem</b>		6, b,c
30	<b>6.6</b>	<b>Section 6.6 – Thevenin’s Theorem</b>	<b>Do Section 6.6 Review</b>	6, b,c

**WEEK 12**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Oct 31	<b>6.6</b>	<b>LabVolt – Thevenin Circuits</b>	<b>Read Section 6.7</b>	3,6, a,b,c
Nov 1	<b>6.7</b>	<b>Section 6.7 – Maximum Power Transfer</b>		6, b,c
2	<b>6.7</b>	<b>Section 6.7 – Maximum Power Transfer</b>	<b>Do Section 6.7 Review</b>	6, b,c
6	<b>6.5 – 6.7</b>	<b>Chapter 6: Series-Parallel Circuits - Sections 6.5 - 6.7 Test</b>	<b>Read Section 6.8</b>	6, a,b,c

**WEEK 13**

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 7	<b>6.8</b>	<b>Section 6.8 – The Superposition Theorem</b>		3, a,c
8	<b>6.8</b>	<b>Section 6.8 – The Superposition Theorem</b>	<b>Do Section 6.8 Review Read Section 6.9</b>	3, a,b,c
9	<b>6.9</b>	<b>Section 6.9 – Troubleshooting</b>	<b>Do Section 6.9 Review Complete Chapter 6 Homework Complete Chapter 6 Study Guides</b>	3, a,b,c

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
13	6.8 6.9	<b>Chapter 6: Series-Parallel Circuits - Sections 6.8 - 6.9 Test</b>	<b>Read Appendix C</b>	3, a,c

#### WEEK 14

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 14	App C	<b>Current Sources</b>		2, b,c
15	App C	<b>Norton's Theorem</b>		6, b,c
16	App C	<b>Millman's Theorem</b>		6, b,c
20	App C	<b>LabVolt – Millman's Theorem</b>		3,6, a,b,c

#### WEEK 15

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Nov 21	App C	<b>Appendix C Test</b>		6,b,c, d
22		<b>HOLIDAY - THANKSGIVING</b>	<b>HOLIDAY - THANKSGIVING</b>	
23		<b>HOLIDAY - THANKSGIVING</b>	<b>HOLIDAY - THANKSGIVING</b>	
27	1 – 6	<b>ISCET ESA Exam Review</b>	<b>Study for Final Exam</b>	1-7, b,c
28	1 – 6	<b>ISCET ESA Exam Review</b>	<b>Study for Final Exam</b>	1-7, b,c
29	1 – 6	<b>ISCET ESA Exam Review</b>	<b>Study for Final Exam</b>	1-7, b,c
30	1 – 6	<b>ISCET ESA Exam Review Semester Classes End</b>	<b>Study for Final Exam</b>	1-7, b,c

#### FINAL EXAM WEEK

Date	Chapter/ Lesson	Content	Assignments & Tests Due Dates	Comp. Area
Dec 5	1 – 6	<b><u>DC Circuits Final Exam</u> [Proctored]</b> <b>ISCET ESA-1 Exam</b>		1-7, b,c
6	1 – 6	<b><u>DC Circuits Final Exam</u> [Proctored]</b> <b>ISCET ESA-1 Exam</b>		1-7, b,c

#### Competency Areas:

1. Linkages
2. Gear Drives
3. Motion Analysis
4. Preventative Maintenance

#### General Core Educational Competencies

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.