



ELCR-1010 Direct Current (DC) Circuits
COURSE SYLLABUS
Fall Semester 2021 (202212)

COURSE INFORMATION

Credit Hours/Minutes: 6 Hours / 5250 Minutes

Campus / Class Location: Vidalia Campus / Building B, Room 827

Class Meets: Monday thru Thursday (MTWR), 9:20 AM to 10:53 AM

Course Reference Number (CRN): 20305

INSTRUCTOR CONTACT INFORMATION

Instructor Name: William (Chip) Greene

Office Location: Vidalia Campus / Building B, Room 822

Office Hours: Monday thru Thursday 7:30 to 9:20 AM, Monday and Wednesday 1:00 to 3:00 PM

Email Address: wgreene@southeasterntech.edu

Phone: (912) 538-3102

Fax Number: (912) 538-3106

Preferred Method of Contact: Email or Text to Instructor

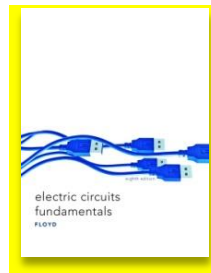
SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook](https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf) (<https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf>).

REQUIRED TEXT

Electric Circuit Fundamentals, 8th edition

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 Georgia Virtual Technical Connection (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. Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

This course provides instruction in the theory and practical application of simple and complex direct current circuitry. Topics include laboratory safety practices and procedures, electrical laws and principles, DC test equipment basic series, parallel and combination circuits, complex series and parallel circuits, DC theorems, and applied algebraic concepts.

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

PREREQUISITE(S)

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

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.

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, masks or face coverings must be worn at all times while in a classroom or lab of Southeastern Technical College. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

COVID-19 SIGNS AND SYMPTOMS

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

| COVID-19 Key Symptoms |
|--|
| Fever or felt feverish |
| Chills |
| Shortness of breath or difficulty breathing (not attributed to any other health condition) |

| COVID-19 Key Symptoms |
|---|
| Cough: new or worsening, not attributed to another health condition |
| Fatigue |
| Muscle or body aches |
| Headache |
| New loss of taste or smell |
| Sore throat (not attributed to any other health condition) |
| Congestion or runny nose (not attributed to any other health condition) |
| Nausea or vomiting |
| Diarrhea |
| In the past 14 days, if you: |
| Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor(s). |

COVID-19 SELF-REPORTING REQUIREMENT

Students, regardless of vaccination status, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using <https://www.southeasterntech.edu/covid-19/>. Report all positive cases of COVID-19 to your instructor and [Stephannie Waters](mailto:swaters@southeasterntech.edu), Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

TRADITIONAL 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.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Vidalia Campus: [Helen Thomas](mailto:hthomas@southeasterntech.edu) hthomas@southeasterntech.edu, 912-538-3126, Building A, Room 165

Swainsboro Campus: [Daphne Scott](mailto:dscott@southeasterntech.edu) dscott@southeasterntech.edu, 478-289-2274, Building 1, Room 1210

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 make arrangements with the appropriate campus coordinator.

Vidalia Campus: [Helen Thomas hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165

Swainsboro Campus: [Daphne Scott dscott@southeasterntech.edu](mailto:dscott@southeasterntech.edu), 478-289-2274, Building 1, Room 1210

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (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" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which the student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

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

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. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

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 (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, 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 nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes. The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

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

| American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer | Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer |
|---|---|
| Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas | Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138-B Phone: 912-538-3230 Email: Lanie Jonas |

| | |
|---|---|
| American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer | Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer |
| hthomas@southeasterntech.edu | ljonas@southeasterntech.edu |

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

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 [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

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 | 89.5 – 100 |
| B | 79.5 – 89.4 |
| C | 69.5 – 79.4 |
| D | 59.5 – 69.4 |
| F | 0 – 59.4 |

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 **Electronics Systems Associate (ESA) – Level 1 Exam (Direct Current Circuits)**. The cost for taking this exam is **\$35** payable to the International Society of Certified Electronics Technicians (ISCET) 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 the ESA – Level 1 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. Students who wish to retake any ESA Exam in order to improve their grades to receive their ESA – Level 1 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 2021 (202212) Lesson Plan

WEEK 1 (AUG IS AUGUST)

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|--|---|-----------------|
| Aug 16 | None | Class Introduction – Syllabi, Outline, Rules, and Regulations Coverage (Sect is Section) | Read Sections 1.1 & 1.2 [On Blackboard] Read / Review START HERE info POST to appropriate Message Boards | 1, b,c |
| Aug 17 | 1.1, 1.2 | Sect 1.1 – Scientific & Engineering Notation Sect 1.2 – Units & Metric Prefixes | Do Sect 1.1 & 1.2 Reviews Read Sect 1.3 & 1.4 | 1, a,b,c |
| Aug 18 | 1.3 | Sect 1.3 – Metric Unit Conversions | Do Sect 1.3 & 1.4 Reviews Read Sect 1.5 | 1, a,b,c |
| Aug 19 | 1.4, 1.5 | Sect 1.4 – Measured Numbers Sect 1.5 – Electrical Safety | Watch All Chapter 1 Videos | 1, b,c |

WEEK 2

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|--|---|-----------------|
| Aug 23 | 1 | LabVolt – Trainer Familiarization | | 1, a,b,c |
| Aug 24 | 1 | Chapter 1 Review | Complete Chapter 1 Homework Complete Chapter 1 Study Guides | 1, b,c |
| Aug 25 | 1 | Chapter 1 Test | Read Sect 2.1 & 2.2 | 1, a,b,c |
| Aug 26 | 2.1, 2.2 | Sect 2.1 – Atoms Sect 2.2 – Electrical Charge | Do Sect 2.1 & 2.2 Reviews Read Sect 2.3, 2.4 & 2.5 Watch All Chapter 2 Videos | 2,7, a,b,c |

WEEK 3 (SEPT IS SEPTEMBER)

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|---------------|-------------------------|---|---|------------------------|
| Aug 30 | 2.3 – 2.5 | Sect 2.3 – Voltage Sect 2.4 – Current Sect 2.5 – Resistance | Do Sect 2.3, 2.4 & 2.5 Reviews Read Sect 2.6 & 2.7 | 2,7, a,b,c |
| Aug 31 | 2.3 – 2.5 | LabVolt – Electronic Quantities | | 2,3,7, a,b,c |
| Sept 1 | 2.6, 2.7 | | Do Sect 2.6 & 2.7 Reviews | 2,3,7, b,c |
| Sept 2 | 2.6, 2.7 | LabVolt – Switches & Concepts | | 2,3,7, a,b,c |
| Sept 6 | | HOLIDAY – LABOR DAY | HOLIDAY – LABOR DAY | |

WEEK 4

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|----------------|-------------------------|--|--|------------------------|
| Sept 7 | 2 | Chapter 2 Review | Complete Chapter 2 Homework Complete Chapter 2 Study Guides | 2,3,7, b,c |
| Sept 8 | 2 | Chapter 2 Test | Read Sect 3.1 & 3.2 | 2,3,7, a,b,c |
| Sept 9 | 3.1, 3.2 | Sect 3.1 – Ohm’s Law Sect 3.2 – Application of Ohm’s Law | Do Sect 3.1 & 3.2 Reviews Read Sect 3.3 & 3.4 Watch All Chapter 3 Videos | 2,3,7, a,b,c |
| Sept 13 | 3.3, 3.4 | Sect 3.3 – Energy & Power Sect 3.4 – Power in an Electric Circuit | Do Sect 3.3 & 3.4 Reviews Read Sect 3.5 & 3.6 | 2, a,b,c |

WEEK 5

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|----------------|-------------------------|---|--|------------------------|
| Sept 14 | 3.1 – 3.4 | LabVolt – Ohm’s Law | | 2,3,7, a,b,c |
| Sept 15 | 3.5, 3.6 | Sect 3.5 – Power Rating of Resistors Sect 3.6 – Energy Conversion and Voltage Drop in a Resistance | Do Sect 3.5 & 3.6 Reviews Read Sect 3.7 & 3.8 | 2, a,b,c |
| Sept 16 | 3.7, 3.8 | Sect 3.7 – Power Supplies Sect 3.8 – Introduction to Troubleshooting | Do Sect 3.7 & 3.8 Reviews | 2,3, a,b,c |
| Sept 20 | 3 | Chapter 3 Review | Complete Chapter 3 Homework Complete Chapter 3 Study Guides | 2,3,7, b,c |

WEEK 6

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|---------|------------------|--|--|-----------------|
| Sept 21 | 3 | Chapter 3 Test | Read Sect 4.1 & 4.2 | 2,3,7, a,b,c |
| Sept 22 | 4.1, 4.2 | Sect 4.1 – Resistors in Series Sect 4.2 – Total Series Resistance | Do Sect 4.1 & 4.2 Reviews Read Sect 4.3, 4.4 & 4.5 | 2-4,7, a,b,c |
| Sept 23 | 4.3 – 4.5 | Sect 4.3 – Current in a Series Circuit Sect 4.4 – Applications of Ohm’s Law Sect 4.5 – Voltage Sources in Series | Do Sect 4.3, 4.4 & 4.5 Reviews Read Sect 4.6 & 4.7 Watch Chapter 4 Video | 2-4,7, a,b,c |
| Sept 27 | 4.6, 4.7 | Sect 4.6 – Kirchoff’s Voltage Law Sect 4.7 – Voltage Dividers | Do Sect 4.6 & 4.7 Reviews Read Sect 4.8, 4.9 & 4.10 | 2,4,7, a,b,c |

WEEK 7 (OCT IS OCTOBER)

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|---------|------------------|---|--|-----------------|
| Sept 28 | 4.8 – 4.10 | Sect 4.8 – Power in Series Circuits Sect 4.9 – Voltage Measurements Sect 4.10 – Troubleshooting | Do Sect 4.8, 4.9 & 4.10 Reviews | 2,4,7, a,b,c |
| Sept 29 | 4 | LabVolt – Series Resistive Circuits | | 3,4, a,b,c |
| Sept 30 | 4 | Chapter 4 Review | Complete Chapter 4 Homework Complete Chapter 4 Study Guides | 4, a,b,c |
| Oct 4 | 4 | Chapter 4 Test | Read Sect 5.1 & 5.2 | 4, a,b,c |

WEEK 8

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|---|--|-----------------|
| Oct 5 | 5.1, 5.2 | Sect 5.1 – Resistors in Parallel Sect 5.2 – Total Parallel Resistance | Do Sect 5.1 & 5.2 Reviews Read Sect 5.3 & 5.4 | 4, a,b,c |
| Oct 6 | 5.3, 5.4 | Sect 5.3 – Voltage in a Parallel Circuit Sect 5.4 – Application of Ohm’s Law | Do Sect 5.3 & 5.4 Reviews Read Sect 5.5 & 5.6 | 4, a,b,c |
| Oct 7 | | STAFF DEVELOPMENT DAY No Classes | STAFF DEVELOPMENT DAY No Classes | |
| Oct 11 | 5.1 – 5.4 | LabVolt – Parallel Resistive Circuits | Watch Chapter 5 Video MID-TERM (for Full Term) | 3,4, a,b,c |
| Oct 12 | 5.5, 5.6 | Sect 5.5 – Kirchoff’s Current Law Sect 5.6 – Current Dividers | Do Sect 5.5 & 5.6 Reviews Read Sect 5.7 & 5.8 | 4, a,b,c |

WEEK 9

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|--|--|-----------------|
| Oct 13 | 5.7, 5.8 | Sect 5.7 – Power in Parallel Circuits Sect 5.8 – Troubleshooting | Do Sect 5.7 & 5.8 Reviews | 4, b,c |
| Oct 14 | 5 | Chapter 5 Review | Complete Chapter 5 Homework Complete Chapter 5 Study Guides | 4, b,c |
| Oct 18 | 5 | Chapter 5 Test | Read Sect 6.1 & 6.2 | 4, a,b,c |
| Oct 19 | 6.1, 6.2 | Sect 6.1 – Identifying Series-Parallel Sect 6.2 – Analysis of Series-Parallel | Do Sect 6.1 & 6.2 Reviews Read Sect 6.3 & 6.4 | 4, b,c |

WEEK 10

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|---|--|-----------------|
| Oct 20 | 6.3, 6.4 | Sect 6.3 – Voltage Dividers with Loads Sect 6.4 – Loading Effect of Voltmeters | Do Sect 6.3 & 6.4 Reviews | 4, b,c |
| Oct 21 | 6.1 – 6.4 | LabVolt – Series/Parallel Resistive Circuit | Watch Chapter 6 – Part 1 Video | 3,4, a,b,c |
| Oct 25 | 6.1 – 6.4 | Chapter 6: Series-Parallel Circuits - Sect 6.1 - 6.4 Test | Read Sect 6.5 | 4, a,b,c |
| Oct 26 | 6.5 | Sect 6.5 – The Wheatstone Bridge | 65% Point for Full Term Fall Semester | 5, b,c |

WEEK 11 (NOV IS NOVEMBER)

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|----------------------------------|--|-----------------|
| Oct 27 | 6.5 | Sect 6.5 – The Wheatstone Bridge | Watch Chapter 6 – Part 2 Video – Wheatstone Bridge | 5,7, b,c |
| Oct 28 | 6.5 | Sect 6.5 – The Wheatstone Bridge | Read Sect 6.6 Do Sect 6.5 Review | 5,7, a,b,c |
| Nov 1 | 6.6 | Sect 6.6 – Thevenin’s Theorem | Watch Chapter 6 – Part 2 Video – Thevenin Equivalent Circuit | 6,7, b,c |
| Nov 2 | 6.6 | Sect 6.6 – Thevenin’s Theorem | Do Sect 6.6 Review | 6,7, b,c |

WEEK 12

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------------|-------------------------|--|--|------------------------|
| Nov 3 | 6.6 | LabVolt – Thevenin Circuits | Read Sect 6.7 | 3,6, a,b,c |
| Nov 4 | 6.7 | Sect 6.7 – Maximum Power Transfer | | 6, b,c |
| Nov 8 | 6.7 | Sect 6.7 – Maximum Power Transfer | Do Sect 6.7 Review | 6, b,c |
| Nov 9 | 6.5 – 6.7 | Chapter 6: Series-Parallel Circuits - Sect 6.5 - 6.7 Test | Read Sect 6.8 | 6, a,b,c |

WEEK 13

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|---------------|-------------------------|--|--|------------------------|
| Nov 10 | 6.8 | Sect 6.8 – The Superposition Theorem | Watch Chapter 6 – Part 2 Video – Superposition Theorem | 3,6,7, a,c |
| Nov 11 | 6.8 | Sect 6.8 – The Superposition Theorem | Do Sect 6.8 Review Read Sect 6.9 | 3,6,7, a,b,c |
| Nov 15 | 6.9 | Sect 6.9 – Troubleshooting | Do Sect 6.9 Review Complete Chapter 6 Homework Complete Chapter 6 Study Guides | 3, a,b,c |
| Nov 16 | 6.8 6.9 | Chapter 6: Series-Parallel Circuits - Sect 6.8 - 6.9 Test | Read Appendix C | 3, a,c |

WEEK 14 (APP IS APPENDIX)

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|---------------|-------------------------|------------------------------------|--|------------------------|
| Nov 17 | App C | Current Sources | | 2, b,c |
| Nov 18 | App C | Norton's Theorem | | 6,7, b,c |
| Nov 22 | App C | Millman's Theorem | | 6,7, b,c |
| Nov 23 | App C | LabVolt – Millman's Theorem | | 3,6, a,b,c |

WEEK 15 (DEC IS DECEMBER)

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|--------|------------------|---|-------------------------------|-----------------|
| Nov 24 | | HOLIDAY - THANKSGIVING | HOLIDAY - THANKSGIVING | |
| Nov 25 | | HOLIDAY - THANKSGIVING | HOLIDAY - THANKSGIVING | |
| Nov 29 | App C | Appendix C Test | | 6,7, b,c,d |
| Nov 30 | 1 – 6, App C | ISCET ESA Exam Review | Study for Final Exam | 1-7, b,c |
| Dec 1 | 1 – 6, App C | ISCET ESA Exam Review | Study for Final Exam | 1-7, b,c |
| Dec 2 | 1 – 6, App C | ISCET ESA Exam Review Semester Classes End | Study for Final Exam | 1-7, b,c |

FINAL EXAM WEEK

| Date | Chapter / Lesson | Content | Assignments & Tests Due Dates | Competency Area |
|-------|------------------|---|--|-----------------|
| Dec 6 | 1 – 6 App C | <u>DC Circuits Final Exam</u> [Proctored] ISCET ESA-1 Exam | 9:00 AM – Room 827 For Exam Takes | 1-7, a,b,c |
| Dec 7 | 1 – 6 App C | <u>DC Circuits Final Exam</u> [Proctored] ISCET ESA-1 Exam | 1:00 PM – Room 827 For Exam Retakes | 1-7, a,b,c |

COMPETENCY AREAS:

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
7. Applied Algebraic Concepts

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.