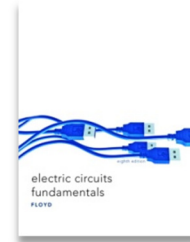


Semester: Spring 2016 (201614)
Course Title: AC Circuits
Course Number: ELCR 1020
Credit Hr / Min: 7 hr / 6750 min
Class Location: RMTC Room 827
Class Meets: M-R, 9 to 10:55 a.m.
CRN: 40238

Instructor: William Greene
Office Hours: Mon –Thurs 11:00 am – 12:00 pm
Mon & Wed 1:00 pm – 3:00 pm
Office: RMTC Room 822, Vidalia Campus
E-mail: wgreene@southeasterntech.edu
Phone: 912-538-3102 FAX: 912-538-3106
Preferred contact method is e-mail

REQUIRED TEXTS: *Electric Circuit Fundamentals, 8th ed.*
by Thomas L. Floyd, published by Prentice Hall,
ISBN# 0-13-507293-X

OPTIONAL SOFTWARES: NI MultiSim Software Student Edition Suite 10
or higher
IE 7 or higher or Mozilla Firefox 2.0 or higher



REQUIRED SUPPLIES: Engineering / Scientific Calculator, **TI-83 Plus Graphing Calculator.** **This calculator is required for the mathematics classes associated with the Electronics programs.**

COURSE DESCRIPTION: This course introduces the theory and application of varying sine wave voltages and current, and continues the development of AC concepts with emphasis on constructing, verifying, and troubleshooting reactive circuits using RLC theory and practical application. Topics include AC wave generation, frequency and phase relationship, impedance, admittance, and conductance power factors, reactive components simple RLC circuits, AC circuit resonance, passive filters, and non-sinusoidal wave forms.

PREREQUISITES: ELCR 1010

MAJOR COURSE COMPETENCIES / COURSE OUTLINE:

1. AC Wave Generation
2. Frequency and Phase Relationships
3. Impedance, Admittance, and Conductance, Power Factors
4. Reactive Components
5. Simple RLC Circuits
6. AC Circuit Resonance
7. Passive Filters
8. Non-sinusoidal Wave Forms

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: 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 students must** pledge that they have read and understand the *STC Online Orientation* within the first five days of class. **All 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.

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.

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, Room 108 Vidalia Campus, 912-538-3126, or Jan Brantley, Room 1208 Swainsboro Campus, 478-289-2274, to coordinate reasonable accommodations.

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 the Special Needs Office. Swainsboro Campus: Jan Brantley, Room 1208, (478) 289-2274 -- Vidalia Campus: Helen Thomas, Room 108, (912) 538-3126.

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:

--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.

--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.

--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 second 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

Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era 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).

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 at 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.

ELCR 1020 GRADING POLICY:

| | |
|--------------|-------|
| Exams | 30% |
| Labs | 20% |
| Homework | 10% |
| Study Guides | 5% |
| Final Exam | 35% * |
| | 100% |

GRADING SCALE:

| | |
|---|----------|
| A | (90-100) |
| B | (80-89) |
| C | (70-79) |
| D | (60-69) |
| F | (0-59) |

For **any** course to count as credit for graduation, student must make a C or higher in the course.

ELECTRONICS COMPETENCY EXAMS:

* The ELCR 1020 Final Exam is the ESA Part II – AC Exam. The cost for taking this exam is \$35 payable to the STC Business Office before the last week of the quarter. Please plan for this cost to complete the AC series of classes successfully. A grade of 75 or higher on this exam will result in the student being awarded their ESA II 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 1020.

Upon successful completion of all four parts of the ESA exams (i.e. ≥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 one year of the original purchase of their test voucher for that exam.

IMPORTANT REMINDERS CONCERNING ASSIGNMENTS: *(Students are responsible for all information contained in this lesson plan).*

- **Assignments:** This lesson plan is subject to change at instructor's discretion. All assignments must be submitted and completed by the due dates listed above to receive credit.....so manage your time wisely each week. Missing assignments receive a grade of zero.
- **Study Guides:** For each Chapter within this course, there are online Study Guides (i.e. Practice Tests) available from the publisher's Web Site. You may take these Practice Tests as many times as you would like in order to prepare for the test. There are three Practice Tests for each Chapter: Multiple Choice, True / False, and Fill in the Blanks. You are required to complete all three of these for each Chapter. You should refer to lesson plan information above for specific weeks when material is covered and when the Practice Tests are due for your grade.
- **Videos:** These videos contain useful supplemental information for the course. Links to download and view the videos are provided within the Blackboard system. A CD containing the Videos for each Chapter will be provided upon request for students with slow Internet links.

****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.

ELCR-1020 – Alternating Current Circuits
LESSON PLAN
Spring Semester 2016 (CRN 40238)

Color Codes: **Black** = Assignments & Information, **Blue** = [Graded Assignments](#)

| Date | Chapter / Lesson | Content | Assignments & Tests (Due Dates) | *Comp. Area |
|---------------|-----------------------------|---|--|--------------------|
| WEEK 1 | | | | |
| Jan 11 | | Class Introduction – Syllabi, Outline, Work Ethics, Rules, and Regulations Coverage For any assigned reading, complete the Section Checkups at the end of each Section. It is a great way to review what you have read. | Read Sections 7.1 & 7.2 [On Blackboard] Read / Review START HERE information POST to appropriate Message Boards | 1,a,b,c |
| 12 | 7.1, 7.2 | Section 7.1 – The Magnetic Field Section 7.2 – Electromagnetism | Install / Test Out MultiSim Software Read Sections 7.3 & 7.4 | 1,b,c |
| 13 | 7.3, 7.4 | Section 7.3 – Electromagnetic Devices Section 7.4 – Magnetic Hysteresis | Read Sections 7.5, 7.6 & 7.7 | 1,b,c |
| 14 | 7.5, 7.6, 7.7 | Section 7.5 – Electromagnetic Induction Section 7.6 – DC Generators Section 7.7 – DC Motors | Do Chapter 7 Homework Assignments Watch All Chapter 7 Videos | 1,b,c |
| WEEK 2 | | | | |
| Jan 18 | | HOLIDAY | HOLIDAY | |
| 19 | 7 | LabVolt – Magnetism | Do Chapter 7 Study Guides Study for Chapter 7 Test | 1,a,b,c |
| 20 | 7 | Chapter 7 Test | Take Chapter 7 Test | 1,b,c |
| 21 | 7 | ISCET Material Review – Chapter 7 | Read Sections 8.1, 8.2, 8.3 & 8.4 | 1,b,c |
| 25 | 8.1, 8.2, 8.3, 8.4 | Section 8.1 – The Sinusoidal Waveform Section 8.2 – Voltage & Current Values Section 8.3 – Angular Measurements Section 8.4 – Sine Wave Formula | Read Sections 8.5, 8.6, 8.7 & 8.8 | 2,3,b,c |
| WEEK 3 | | | | |
| Jan 26 | 8.5, 8.6, 8.7, 8.8 | Section 8.5 – Analysis of AC Circuits Section 8.6 – Alternators (AC Generators) Section 8.7 – AC Motors Section 8.8 – Non-sinusoidal Waveforms All Chapter 7 Assignments DUE | Read Section 8.9 | 2,3,8,b,c |
| 27 | 8.9 | Section 8.9 – The Oscilloscope LabVolt – AC Waveform Generator | Do Chapter 8 Homework Assignments | 1,2,3,8, a,b,c |
| 28 | 8 | LabVolt – AC Measurements Chapter 8 Review | Do Chapter 8 Study Guides Study for Chapter 8 Test | 1,2,3,8, a,b,c |
| Feb 1 | 8 | Chapter 8 Test | Take Chapter 8 Test | 2,3,8,b,c |

| WEEK 4 | | | | |
|--------|--|---|---|-----------------|
| Feb 2 | 8 | ISCET Material Review – Chapter 8 | Read Sections 9.1, 9.2, 9.3 & 9.4 | 1,2,3,8, b,c |
| 3 | 9.1, 9.2, 9.3, 9.4 | Section 9.1 – The Basic Capacitor Section 9.2 – Types of Capacitors Section 9.3 – Series Capacitors Section 9.4 – Parallel Capacitors | Read Sections 9.5 & 9.6 | 2,3,4,b,c |
| 4 | 9.5, 9.6 | Section 9.5 – Capacitors in DC Circuits Section 9.6 – Capacitors in AC Circuits All Chapter 8 Assignments DUE | Read Section 9.7 Watch Chapter 9 Videos Do Chapter 9 Homework Assignments | 2,3,4,b,c |
| 8 | 9.7 | Section 9.7 – Capacitor Applications | Do Chapter 9 Study Guides | 2,3,4,b,c |
| WEEK 5 | | | | |
| Feb 9 | 9 | LabVolt – Capacitance | Study for Chapter 9 Test | 2,3,4, a,b,c |
| 10 | 9 | Chapter 9 Test | Take Chapter 9 Test | 2,3,4,b,c |
| 11 | 9 | ISCET Material Review – Chapter 9 | Read Sections 11.1, 11.2 & 11.3 | 2,3,4,b,c |
| 15 | 11.1, 11.2, 11.3 | Section 11.1 – The Basic Inductor Section 11.2 – Types of Inductors Section 11.3 – Series & Parallel Inductors All Chapter 9 Assignments DUE | Read Sections 11.4 & 11.5 | 2,3,4,b,c |
| WEEK 6 | | | | |
| Feb 16 | 11.4, 11.5 | Section 11.4 – Inductors in DC Circuits Section 11.5 – Inductors in AC Circuits | Read Section 11.6 | 2,3,4,b,c |
| 17 | 11.6 | Section 11.6 – Inductor Applications LabVolt – Inductance | Watch Chapter 11 Videos Do Chapter 11 Homework Assignments | 2,3,4, a,b,c |
| 18 | 11 | Chapter 11 Review | Do Chapter 11 Study Guides | 2,3,4,b,c |
| 22 | 11 | Chapter 11 Test | Take Chapter 11 Test | 2,3,4,b,c |
| WEEK 7 | | | | |
| Feb 23 | 11 | ISCET Material Review – Chapter 11 All Chapter 11 Assignments DUE | Read Sections 14.1, 14.2, 14.3, 14.4, 14.5 | 2,3,4,b,c |
| 24 | 14.1, 14.2, 14.3, 14.4, 14.5 | Section 14.1 – Mutual Inductance Section 14.2 – The Basic Transformer Section 14.3 – Step-Up & Step-Down Section 14.4 – Loading the Secondary Section 14.5 – Reflected Load | Read Sections 14.6, 14.7, 14.8 & 14.9 | 2,3,4,b,c |
| 25 | 14.6, 14.7, 14.8, 14.9 | Section 14.6 – Impedance Matching Section 14.7 – Transformer Ratings Section 14.8 – Tapped & Mult. Winding Section 14.9 – Troubleshooting | Watch Chapter 14 Videos Do Chapter 14 Homework Assignments | 2,3,4,b,c |
| 29 | 14 | LabVolt – Transformers | Do Chapter 14 Study Guides | 2,3,4, a,b,c |

| WEEK 8 | | | | |
|---------|------------------------|---|--|-----------------|
| Mar 1 | 14 | Chapter 14 Review | Study for Chapter 14 Test | 2,3,4,b,c |
| 2 | 14 | Chapter 14 Test | Take Chapter 14 Test | 2,3,4,b,c |
| 3 | 14 | ISCET Material Review – Chapter 14 MID-TERM | Read Sections 10.1 & 10.2 | 2,3,4,b,c |
| 7 | 10.1, 10.2 | Section 10.1 – Sinusoidal Response of RC Circuits Section 10.2 – Impedance & Phase Angle of Series RC Circuits All Chapter 14 Assignments DUE | Read Sections 10.3 & 10.4 | 3,4,7,b,c |
| WEEK 9 | | | | |
| Mar 8 | 10.3, 10.4 | Section 10.3 – Analysis of Series RC Circuits Section 10.4 – Impedance & Phase Angle of Parallel RC Circuits | Read Sections 10.5 & 10.6 | 3,4,7,b,c |
| 9 | 10.5, 10.6 | Section 10.5 – Analysis of Parallel RC Circuits Section 10.6 – Analysis of Series-Parallel RC Circuits | Read Sections 10.7, 10.8 & 10.9 | 3,4,7,b,c |
| 10 | 10.7, 10.8, 10.9 | Section 10.7 – Power in RC Circuits Section 10.8 – Basic Applications Section 10.9 – Troubleshooting | Watch All Chapter 10 Videos Do Chapter 10 Homework Assignments | 3,4,7,b,c |
| 14 | | LabVolt – Capacitive Reactance Chapter 10 Review | Do Chapter 10 Study Guides | 3,4,7, a,b,c |
| WEEK 10 | | | | |
| Mar 15 | 10 | Chapter 10 Test | Take Chapter 10 Test Read Sections 12.1, 12.2 & 12.3 | 3,4,7,b,c |
| 16 | 12.1, 12.2, 12.3 | Section 12.1 – Sinusoidal Response of RL Circuits Section 12.2 – Impedance & Phase Angle of Series RL Circuits Section 12.3 – Analysis of Series RL Circuits All Chapter 10 Assignments DUE | Read Sections 12.4, 12.5 & 12.6 | 3,4,7,b,c |
| 17 | 12.4, 12.5, 12.6 | Section 12.4 – Impedance & Phase Angle of Parallel RL Circuits Section 12.5 – Analysis of Parallel RL Circuits Section 12.6 – Analysis of Series-Parallel RL Circuits | Read Sections 12.7, 12.8 & 12.9 Watch All Chapter 12 Videos Do Chapter 12 Homework Assignments | 3,4,7,b,c |
| 21 | 12.7, 12.8, 12.9 | Section 12.7 – Power in RL Circuits Section 12.8 – Basic Applications Section 12.9 – Troubleshooting LabVolt – Inductive Reactance 65% Drop Deadline for Classes | Do Chapter 12 Study Guides | 3,4,7, a,b,c |

| WEEK 11 | | | | |
|-----------|--|---|--|-------------------|
| Mar 22 | 12 | LabVolt – Power in AC Circuits Chapter 12 – Review | Study for Chapter 12 Test | 3,4,7, a,b,c |
| 23 | 12 | Chapter 12 Test | Take Chapter 12 Test | 3,4,7,b,c |
| 24 | 10, 12 | ISCET Material Review – Chapter 10 & 12 | Read Sections 13.1, 13.2, 13.3, 13.4 | 3,4,7,b,c |
| 28 | | SPRING BREAK – NO CLASSES | SPRING BREAK – NO CLASSES | |
| 29 | | SPRING BREAK – NO CLASSES | SPRING BREAK – NO CLASSES | |
| 30 | | SPRING BREAK – NO CLASSES | SPRING BREAK – NO CLASSES | |
| 31 | | SPRING BREAK – NO CLASSES | SPRING BREAK – NO CLASSES | |
| Apr 4 | 13.1, 13.2, 13.3, 13.4 | Section 13.1 – Impedance & Phase Angle of Series RLC Circuits Section 13.2 – Analysis of Series RLC Circuits Section 13.3 – Series Resonance Section 13.4 – Series Resonant Filters All Chapter 12 Assignments DUE | | 3,5,6,7,b,c |
| WEEK 12 | | | | |
| Apr 5 | 13 | LabVolt – RLC Circuits (Series) LabVolt – Series Resonance | Read Sections 13.5, 13.6, 13.7, 13.8 | 3,5,6,7, a,b,c |
| 6 | 13.5, 13.6, 13.7, 13.8 | Section 13.5 – Parallel RLC Circuits Section 13.6 – Parallel Resonance Section 13.7 – Parallel Resonant Filters Section 13.8 – Applications | Watch All Chapter 13 Videos | 3,5,6,7,b,c |
| 7 | 13 | LabVolt – RLC Circuits (Parallel) LabVolt – Parallel Resonance | Watch All Chapter 13 Videos Do Chapter 13 Homework Assignments | 3,5,6,7, a,b,c |
| 11 | 13 | Chapter 13 – Review | Do Chapter 13 Study Guides Study for Chapter 13 Test | 3,5,6,7, b,c |
| WEEK 13 | | | | |
| Apr 12 | 13 | Chapter 13 Test | Take Chapter 13 Test Read Sections 15.1, 15.2, 15.3, 15.4, 15.5 | 3,5,6,7, b,c |
| 13 | 15.1, 15.2, 15.3, 15.4, 15.5 | Section 15.1 – The RC Integrator Section 15.2 – Response of RC Integrators to a Single Pulse Section 15.3 – Response of RC Integrators to Repetitive Pulses Section 15.4 – Response of RC Differentiators to a Single Pulse Section 15.5 – Response of RC Differentiators to Repetitive Pulses All Chapter 13 Assignments DUE | Read Sections 15.6, 15.7, 15.8 & 15.9 | 7,8,b,c |
| 14 | | SPRING ACTIVITY DAY (Vidalia) | Watch Chapter 15 Videos Do Chapter 15 Homework Assignments | 7,8,b,c |
| 18 | 15.6, 15.7, 15.8, 15.9 | Section 15.6 – Response of RL Integrators to Pulse Inputs Section 15.7 – Response of RL Differentiators to Pulse Inputs Section 15.8 – Applications Section 15.9 – Troubleshooting | Do Chapter 15 Study Guides | 7,8,a,b,c |

| WEEK 14 | | | | |
|-------------|--------|---|--|-----------|
| Apr 19 | 15 | LabVolt – To Be Announced | Do Chapter 15 Study Guides | 7,8,a,b,c |
| 20 | 15 | Chapter 15 – Review | Study for Chapter 15 Test | 7,8,b,c |
| 21 | 15 | Chapter 15 Test | Take Chapter 15 Test | 7,8,b,c |
| 25 | 7 – 15 | ISCET ESA Exam Review | Study for Final Exam | 1 – 8,b,c |
| WEEK 15 | | | | |
| Apr 26 | 7 – 15 | ISCET ESA Exam Review All Chapter 15 Assignments DUE | Study for Final Exam | 1 – 8,b,c |
| 27 | 7 – 15 | ISCET ESA Exam Review | Study for Final Exam | 1 – 8,b,c |
| 28 | 7 – 15 | ISCET ESA Exam Review | Study for Final Exam | 1 – 8,b,c |
| May 2 | 7 – 15 | ISCET ESA Exam Review Semester Classes End | Study for Final Exam | 1 – 8,b,c |
| FINALS WEEK | | | | |
| May 4 | 7 – 15 | AC Circuits Final Exam [Proctored] ISCET ESA-2 Exam | | 1 – 8,b,c |
| May 5 | 7 – 15 | AC Circuits Final Exam [Proctored] ISCET ESA-2 Exam | | 1 – 8,b,c |

*** Competency Areas:**

Electronics Technology Competency Areas:

- | | |
|--|------------------------------|
| 1. AC Wave Generation | 5. Simple RLC Circuits |
| 2. Frequency and Phase Relationships | 6. AC Circuit Resonance |
| 3. Impedance, Admittance, and Conductance, Power Factors | 7. Passive Filters |
| 4. Reactive Components | 8. Non-sinusoidal Wave Forms |

General Core Competency Areas:

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