

AC CIRCUIT SYLLABUS

CLARENDON COLLEGE

Division of Business and Technology

Course Name: CETT1305 AC Circuits

Credit Hours: 3

Semester: Fall 2010

Classroom Location: Childress Suite 2

Instructor: Murdock

Office Location: Childress

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Fax: N/A

Other: 940-937-2001

Office Hours: Mon- Fri 2:00- 4:00

I. Course Description:

A study of the fundamentals of alternating current including series and parallel circuits, phasors, capacitive and inductive networks, transformers, and resonance. This course includes a laboratory experience.

II. End of Course Learning Objectives:

As a result of this course, you should be able to: Have a thorough understanding of Alternating and Direct current circuits and how they relate to electricity in our lives, an understanding of motors, generators, Ohm's law, Kirchhoff's laws and Digital Multimeter use for troubleshooting electrical circuits.

III. Tentative Course Content and Activities:

Textbook: Schultz, Paul T. AC/DC Principles, American Technical Publishers 2007

Tentative Fall Course Schedule CETT 1305 AC Circuits		
Week	Week of	
Lecture Topics		
1	Aug 25, 2010	Chapter 12 AC Fundamentals
2	Sep 1, 2010	Chapter 13 Vectors and Phase Relationships
3	Sep 8, 2010	Chapter 14 Resistive circuits
4	Sep 15, 2010	Chapter 15 Inductive AC circuits
5	Sep 22, 2010	Chapter 15 Continued: Hands on Applications
6	Sep 29, 2010	Chapter 16 Capacitive AC Circuits
7	Oct 6, 2010	Chapter 17 Inductive-Resistive-Capacitive Circuits
8	Oct 13, 2010	Mid term
9	Oct 20, 2010	Chapter 18 Resonance
10	Oct 27, 2010	Chapter 18 Continued : Hands on Applications
11	Nov 3, 2010	Chapter 19 Three-Phase AC: Hands on Applications
12	Nov 10, 2010	Chapter 20 Transformers
13	Nov 17, 2010	Chapter 21 AC Motors: Hands on Applications
14	Nov 24, 2010	Thanksgiving
15	Dec 1, 2010	Review for final/ Turn in folders
16	Dec 8, 2010	Final Exam Comprehensive AC/DC Circuits

IV. Course Requirements

Course requirements include problems and exercises, unit tests and final examinations derived from lectures. Assignments will be due one week from the day they were assigned unless special instruction is given by the instructor. Students must actively participate in class and attend class unless arrangements are made in advance for absence.

Pop Quizzes may be given.

Methods and components of evaluation and grading are listed in the following:

Problems and exercises:	20%
Quizzes:	25%
Folder:	5%
Participation	10%
Attendance	10%
Final:	30%

Total 100%

The final semester grades will be figured as set in the current catalog:

90% and above = A

80-89% = B

70-79% = C

60-69% = D

Below 60% = F

A student's final grade will be made available through Campus Connect at Clarendon College's website.

Methods of Instruction:

Lecture, PowerPoint presentation, Student interaction.

Other Requirements:

- Class Attendance is Required
- No late homework will be accepted
- Personal Tools and Supplies include: three ring binder, scientific calculator, and pencils, note paper (recommend graphing or engineering paper), etc...

Classroom Policies:

Classroom Conduct

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records;

(8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved.

Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

American with Disabilities Act Statement:

Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687- 9737). We will work with you to make whatever accommodations we need to make.

Dropping a Course:

A student who is enrolled in a developmental course for TSI purposes may not drop his/her only developmental course unless the student completely withdraws from the college. A student may drop any other course with a grade of "W" any time after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar. The request for permission to drop a course is initiated by the student by procuring a drop form from the Office of Student Services. (Refer to other policies concerning this issue in the current college catalog online.)

Withdrawal from College:

When a student finds it necessary to withdraw from school before the end of the semester, he or she should obtain a withdrawal form from the Office of Student Services. Students may also withdraw from the college by sending a written request for such action to the Registrar's Office. The request must include the student's signature, the student's current address, social security number and course information details. Students who withdraw after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar will be assigned a grade of "W."

Classroom requirements:

The operation of cell phones, MP3 type devices, personal computers, or any other such devices is strictly prohibited during class sessions. The result of such use will result in a zero grade for the event (quiz/test) for that day including final exam day. Cheating, plagiarism or other dishonest acts shall be dealt with to the extent of dismissal from the class permanently on a case by case basis. Under no circumstance will an individual be exonerated after a second incidence, but will be immediately dropped.

Any missed quizzes or exams must be taken within 1 week of the date missed. It is the student's full responsibility to make arrangements to make up a quiz or exam at a time agreeable to the instructor. The Final exam will be taken on the prescribed day or arranged day prior to the final exam. No exceptions.