SYLLABUS - PART II
Edison State Community College
CIRCUITS 1 – Electrical Engineering Technology (ELT) - 110S – 004FS

Instructor: Susan Barth B.S. Electrical Engineering Michigan Tech. University 1993
M.S. Engineering University of Toledo 2016

email: sbarth@edisonohio.edu **Office**: (937) 778-7911 **Cell**: (937) 524-1482

Office hours: Monday 3-4 p.m., Tuesday and Thursday 10 a.m.- noon, Wednesday 3-5 p.m.
Office hours will be online Wednesday and Thursday

Materials for the class:

1. A non-phone scientific **calculator** with an 1/x or x^{-1} button and an e^x button at least.
2. **Text**: Lessons In Electric Circuits, Volume I – CD by Tony R. Kuphaldt
   (Online text available at this web address – shortcut to it through Blackboard)
   https://www.ibiblio.org/kuphaldt/electricCircuits/DC/DC.pdf

Class Outline:

Week	Topics	Assignments
1	Foundational Concepts, Metric Conversions, Resistors Color Codes and Ohm's Law.	
2	Ohm's Law, Using Meters (Safety)	Lab 1 Meters and lab equipment
3	Series Circuits	Lab 2, Quiz 1 Homework, Quiz 1
4	Series Circuits Lab	Lab 3, Quiz 2 Homework, Quiz 2
5	Parallel Circuits	
6	Parallel Circuits Lab	Lab 4, Quiz 3 Homework, Quiz 3
7	Basic Soldering	Soldering Lab
8	Review	**Midterm Exam**
9	Series-Parallel Circuits	
10	Series-Parallel Circuits Lab	Lab 5, Quiz 4 Homework, Quiz 4
11	Network Analysis: Super position, Mesh analysis	
12	Max. Power Theorem, Thevenin Equivalent	Lab 6, Quiz 5 Homework, Quiz 5
13	Magnetism, Batteries	
14	Capacitance and Inductance in a DC system	
15	Review	Quiz 6 Homework, Quiz 6
16	**Final Exam**	

Homework:

Homework will be done through Blackboard. Each quiz section has multiple parts. One part will have general questions, while another part will have questions that pertain to a specific circuit.

You will be given 2 opportunities to submit for each homework section.
Scoring will be an average of the two. (If you do well, you do not have to submit the second homework).

Homework will be due the day of the quiz that covers its material!!! If you have questions, you may ask me, and I will be happy to go over how to do that problem or a similar one.

Grading:

20%	Homework	20%	Labs		
20%	Quizzes	20%	Midterm	20%	Final Exam

Points: Labs @ 100 points each x 6 = 600 points
+Soldering Lab = 50 points
Quizzes @ 100 points each x 6 = 600 points
Homework (various) = approx. 600 points (563)
Midterm = 600 points
Final = 600 points
3050 points (2913)

*The grades will be weighted as stated before, but as you can see, an approximate sense of how you are doing in class can be obtained by adding the points obtained by how many total points possible. If for some reason I choose to drop a quiz (not guaranteed). I would weight the quiz average so that it remains 20% of your grade.

Grade Scale: 90 - 100 = A 60 – 69 = D
80 – 89 = B under 60 = F (need to retake the class)
70 – 79 = C *You may withdraw from the class before week 10

Cheating Policy:
Cheating will not be tolerated and will receive disciplinary action according to the current Edison Policy.

Absentee / Makeup Policy:
It is vital to come to class to understand the material and participate in labs, take quizzes, etc.
If you miss class or intend to miss class, please email me or let me know ASAP. It is your responsibility to get notes from someone else in the class. We can schedule when to make up the missed work. If you miss several weeks without notice, it is up to my discretion to help you.

TESTING YOUR FAITH ACT POLICY
Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, https://www.edisonohio.edu/Registration-and-Records/ and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at http://stage.edisonohio.edu/digipub/StudentHandbook/index.html.