ENEE 2550

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SYLLABUS
ENEE 2550 – Circuits I

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Office Hours: Everyday 10-3PM (except class times). Others by appointment.

CATALOG DESCRIPTION
ENEE 2550 Circuits 1                  3 units lecture
Introduction to linear, time-invariant, and lumped circuits. Kirchhoff’s laws, DC analysis of resistive
circuits, and transient analysis of RLC circuits.

TEXTBOOK: Charles Alexander and Matthew Sadiku, Fundamentals of Electric Circuits, 5th

CLASS TIME: Tuesday, Thursday 9:30AM – 10:45AM, Room: SCI 1001

PREREQUISITE: Math 2114 or consent of department

COURSE OBJECTIVE
Provide students with the basic foundation of theory and analysis techniques of DC linear resistive
circuits and switching transients in the presence of capacitors and inductors. Knowledge gained in
this course is essential for all subsequent electrical engineering courses.

COURSE TOPICS
1. Basic electrical circuit concepts and quantities
2. Resistive circuits, Ohm’s law, and Kirchhoff’s laws
3. Series and parallel combinations of resistors and delta-wye transformations
4. Independent and dependent voltage and current sources
5. Nodal and loop (or mesh) analysis techniques
6. Operational amplifiers
7. Linearity and superposition
8. Source transformations
9. Thevenin’s theorem
10. Maximum power transfer theorem
11. Capacitance and inductance
12. Transients in RL, RC, and RLC circuits

Note: This material is covered in Chapters 1-8 of your textbook.

CRITERIA FOR GRADING, GRADING STANDARDS
Homeworks, 3 closed book exams and one final exam will be given. Test dates will be assigned
well in advance of their administration date based on class readiness. Final Exam is scheduled
for 10AM-Noon on Thursday December 10, 2015.

Your final grade will be computed based on the following percentages:

HOMEWORKS   15%
EXAM 1         20%
EXAM 2         20%
EXAM 3         20%
FINAL EXAM     25%
Makeup exams will not be allowed without an acceptable valid excuse for missing a test. Your final semester grade will be curved based on the class average for the semester.

Homeworks will be neatly organized with circled or marked answers, stapled, and folded about the vertical axis. Place your name on every sheet including a blank last page with your name on the outside. Homework will be accepted late but ONLY ONE CLASS after it is due and then with a late penalty of ½ credit.

**ATTENDANCE POLICY**
Attendance is REQUIRED in ENEE2550 and roll will be periodically taken. My class will be taught in a highly interactive manner. Please be in class on time. Distracting interruptions are inconsiderate, disrespectful, and time-wasting. There is no excuse for repeatedly arriving late. Parking is often a hassle here so allow enough time for it.

**OTHER PERTINENT INFORMATION**

1. Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at [http://www.studentaffairs.uno.edu](http://www.studentaffairs.uno.edu).

2. Cheating will not be tolerated in this class. For details on this policy please see and read

3. During class times and exams, there will be no listening to music with Ipods/Ipads, cell phone usage or text messaging allowed. Turn off cell phones before class begins and you must put them away out of sight!

4. Laptops being used for recreational activities or doing studies/homework for other classes during my class time will not be tolerated. In general, laptops are not needed for this class.

5. *Cell phone calculators CANNOT be used for tests/exam.*

6. Students are expected to treat faculty and fellow students with respect. Any actions that purposefully and maliciously distract the class from the work at hand will not be allowed. Civility in the classroom and respect for the opinions of others is very important in an academic environment.

7. It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to [http://www.ods.uno.edu](http://www.ods.uno.edu).