

Syllabus

Advanced Circuits & Systems

EET K119

Fall 2008

Three Rivers Community College

John Forella, Instructor

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Office Hours: by appointment

Text: Boylestad, Introductory Circuit Analysis, Eleventh Edition

Course Description: This course is a continuation of EET 105, Electric Circuits and Systems. AC circuit analysis of series and parallel circuits will be developed first, in terms of such quantities as voltage, current, impedance, and power. Then, the course will backtrack and take a look at some more advanced network analysis techniques and theorems, first in terms of DC, and then in terms of AC. This will be followed by a more systematic development of AC power. The final part of the course will look at the topics of magnetic circuits, three phase power, transformers and resonance.

Method of Evaluation

Homework assignments will be given routinely. Occasionally these will be collected for grading. When an assignment is to be collected, you will be given notice of that intent at the time the assignment is given. Each class will begin with a review of previously assigned homework. Collected assignments cannot be accepted once they have been reviewed in class.

There will be 4 tests during the course. Please plan to attend all tests. The only allowance for make-up tests will be by prior notification of me before the test is scheduled to start.

The final grade will be calculated using the average of the graded homework assignments weighed at 25% and the average of the tests weighted at 75%. Class participation will also be included in final grade calculation. All tests will be closed book and closed notes.

College Withdrawal Policy

Students may withdraw, in writing or verbally at the Registrar's Office for any reason until the end of the 10th week of classes. From the 11th week through the end of the 13th week, a student may withdraw with the instructor's written approval.

Disabilities Statement

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact the Disabilities Counseling Services at 383-5240. To avoid any delay in the receipt of accommodations, you should contact the counselor as soon as possible. Please note that I cannot provide accommodations based upon disability until I have received an accommodation letter from the Disabilities Counselor.

<u>Week</u>	<u>Date</u>	<u>Chapter</u>	<u>Homework Assignment</u>
1	9/8	Chapter 14 Basic Elements and Phasor	5a, 8a, 12a, 13c, 15a, 16a, 21
2	9/15	Chapter 14 Basic Elements and Phasors	29a, 31, 36, 39a, 40a, 43a, 44e, 48a, 49a,
3	9/22	Chapter 15 Series and Parallel ac Circuits	1a,b,d, 3a,b,c, 5a, 8, 15b
4	9/29	Test 1 Chapter 14 Chapter 15 Series and Parallel ac Circuits	25f, 28, 34a
5	10/6	Chapter 15 Series and Parallel ac Circuits	41a
6	10/20	Chapter 16 Series and Parallel ac Networks	3, 11
7	10/27	Chapter 8 Methods of Analysis and Topics	3, 6, 7a, 8a, 20a,
8	11/3	Test 2 Chapters 15 & 16 Chapter 8 Methods of Analysis and Topics	Chap.8 - 45c, 47c, Chap.17 - 3a
9	11/10	Chapter 9 Network Theorems	2, 3, 7, 9, 10
10	11/17	Chapter 9 Network Theorems	18, 19, 24II
11	11/24	Chapter 19 Power (ac)	3, 7
12	12/1	Test 3 Chapters 17 & 18 Chapter 19 Power (ac)	17
13	12/8	Chapter 12 Magnetic Circuits	3, 5, 7, 9, 11, 19
14	12/15	Chapter 23 Polyphase Systems Chapter 22 Transformers Chapter 20 Resonance	1 4a, 9 3a,b,c
15	12/22	Final Exam Chapters 19, 12, 23, 22 & 20	