

## Syllabus      EET K106      Electric Circuits & Systems Lab

Fall 2009  
Three Rivers Community College  
Office Hours:    Mon & Wed    12:30 – 2:00

John Forella, Instructor  
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Text:    Boylestad, Introductory Circuit Analysis, Eleventh Edition

Course Description: This lab course will supplement the course Electric Circuits & Systems. Students will apply the concepts learned in the classroom and gain practical hands-on experience making electrical measurements using a variety of test instruments.

### Lab schedule

Week	
1.	Math Review
2.	Lab 1    Introduction to Electrical Measurement
3.	Lab 2    Resistors and Resistance Measurement
4.	Lab 3    Ohm's Law
5.	Lab 4    Series Circuit
6.	Lab 5    Kirchoff's Voltage Law and the Voltage Divider
7.	Lab 6    Kirchoff's Current Law and the Current Divider
8.	Lab 7    Series – Parallel Network
9.	Lab 8    Multisim
10.	Lab 9    Oscilloscope Measurements & Techniques
11.	Lab 10    Capacitors in DC Circuits
12.	Lab 11    Inductors in DC Circuits
13.	Lab 12    Measurement of AC Sine-Wave Voltages
14.	

### Method of Evaluation

Grading will be based on a combination of work performed in the laboratory and the lab reports with the following percentages:

- 50% Lab Preparation, Performance and Attendance
- 50% Lab Reports

### Lab Reports

Students may work in pairs or alone. Lab reports must be written in accordance with the **Lab Report Guidelines** provided by the instructor. Lab reports are due on the week following the lab activity. Reports submitted after that time will be considered late and a reduction in grade will be applied. The grade reduction will increase as the number of late weeks increases.

### College Withdrawal Policy

Students may withdraw, in writing or verbally at the Registrar's Office for any reason until the end of the 10<sup>th</sup> week of classes. From the 11<sup>th</sup> week through the end of the 13<sup>th</sup> 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.