

ENGR 2219 – LINEAR CIRCUITS I
Spring 2009
Syllabus

Instructor: Bill Saari
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Office Hours: 12:00 – 12:50 MWF, 11:00 – 11:50 TR
Course Website: <http://www.ar.cc.mn.us/saari/engr2219>

Course Description: Physical principles underlying the modeling of circuit elements – Kirchhoff's laws, mesh and nodal analysis, source transformations, superposition, Thevenin's and Norton's theorems, transient R-L-C circuit analysis, sinusoidal steady state analysis, power. Electronics topics include diodes, transistors, and operational amplifiers. Laboratory included.

Prerequisite: Math 1401 and Phys 1327 or consent of instructor
Textbook: Electric Circuits, 8th Edition by Nilsson and Reidel

Grading:

Grades will be determined based on a weighted average of percentages.

5 Exams: 5 x 18% = 90%

Labs: 10%

A > 90%, B > 80%, C > 70%, D > 60%, F < 60%

Exams: Exams will be closed book, closed notes. Exam 5 will be during the final exam week, but will **not** be cumulative. There will be no make-up exams except under extreme cases determined at the discretion of the instructor, and only one make-up exam will be allowed. In order to be even considered for a make-up exam, you must contact me on or prior to the scheduled date for the exam.

Homework: Homework will be assigned on a regular basis. Homework will not count towards your grade, but it is critical that you do all of the homework problems. You can submit your homework to me if you would like feedback on your work.

Academic Dishonesty: You are encouraged to work with others in the class. However, I expect the work you turn in to be your own efforts. Instances of academic dishonesty will be dealt with according to the regulations of Anoka-Ramsey Community College.

Class Conduct: You are expected to be courteous towards the instructor and your classmates. Class disruptions include: arriving late for class, talking during lecture with other students, and cell phones not turned off during class. You will be allowed to arrive late to class up to three times for the entire course without penalty. After that, one point per late arrival will be deducted from your next exam score. There is no penalty for not attending class. For instances of talking during lecture, you will receive up to three warnings, after which you will receive a one point deduction per instance of talking on your next exam score. Group activities where you are expected to work with your classmates are exempt from this. A one point deduction will be taken on your next exam per instance that your cell phone rings (ring tone or vibrate mode) after the third instance. Further actions can be taken for these and other class disruptions in accordance with the Student Handbook.

Tentative Course Schedule

Week of	Monday	Tuesday	Wednesday	Friday
Jan 12	Ch 1		Ch 1	Ch 2
Jan 19	No Class		Ch 2	Ch 2
Jan 26	Ch 3		Ch 3	Ch 3
Feb 2	Ch 4	Exam 1	Ch 4	Ch 4
Feb 9	Ch 4		Ch 4	Ch 4
Feb 16	No Class		Electronics	Diodes
Feb 23	Diodes	Exam 2	Diodes	No Class
Mar 2	Diodes		BJT's	BJT's
Mar 9	BJT's		BJT's	BJT's
Mar 16	No Class	No Class	No Class	No Class
Mar 23	MOSFET's		MOSFET's	MOSFET's
Mar 30	Ch 5	Exam 3	Ch 5	Ch 5
Apr 6	Ch 5		Ch 5	Ch 6
Apr 13	Ch 6		Ch 6	Ch 7
Apr 20	Ch 7		Ch 7	Ch 7
Apr 27	Ch 8	Exam 4	Ch 8	Ch 8
May 4	Ch 9		Ch 9	Ch 9
Exam 5: Monday, May 11, 2-4 pm				