

EE 2132-001 Circuit Analysis I
Fall 2009

University of Colorado at Denver
College of Engineering and Applied Science

Course dates/times: MW 5:30-6:45 pm

Course location:

Instructor: Kelly Campbell

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Phone: 303-981-2803

Office: NC 2404C

Office Hours: M 3:00 – 4:00 pm, W Noon – 1:00 pm

Course Catalogue Description:

Introduces circuit analysis: basic principles, operational amplifier circuits, first-order and second order circuits, computer software tools.

Prerequisite: MATH 2411, Calculus II.

Required Text: Electric Circuits, 8th Edition, James W. Nilsson, Prentice Hall, 2007
ISBN 9780131989252

Assessment:

Exam 1 (Sep. 14)	20%
Exam 2 (Oct. 12)	20%
Exam 3 (Nov. 9)	20%
Final Exam (TBD)	30%
Homework and quizzes	10%

- The final exam will be comprehensive and administered during finals week.
- Make-up of exams will only be permitted if prior arrangements are made, at the discretion of the instructor, or in the case of medical emergency, notification is made by email or phone no later than the day of the exam. In the case of medical emergency, a written doctor's excuse may be required.
- Homework will be assigned at the end of each class and will be due one week from the day assigned. Late homework will accepted up to one week past the due date. Greater than one week past due will not be accepted.
- Quizzes will be announced one class period ahead of the day of the quiz.

Course Schedule

Week	Dates	Topic(s)	Homework
1	Aug. 17, 19	Basic circuit elements, voltage and current sources, Ohm's Law	Chap 1, 2
2	Aug. 24, 26	Circuit modeling, Kirchoff's Laws, resistive circuit analysis	Chap 2,3
3	Aug. 31, 2	Resistive circuits, voltage/current division, Wye-Delta, Delta-Wye	Chap 3
4	Sep. 7, 9	No Class 9/7, Analysis techniques, node voltage, mesh currents.	Chap 4
5	Sep. 14, 16	Exam 1 (Sep. 14) Analysis techniques, source transformation	Chap 4
6	Sep. 21, 23	Thevenin/Norton theorems	Chap 4
7	Sep. 28, 30	Maximum power transfer, supersposition.	Chap 4
8	Oct. 5, 7	Operational amplifiers (op-amps), modeling and analysis	Chap 5
9	Oct. 12, 14	Exam 2 (Oct. 12) , Capacitors and inductors, mutual inductance.	Chap 6
10	Oct. 19, 21	Response of first-order RL and RC circuits, sequential switching	Chap 7
11	Oct. 26, 28	RL and RC circuit analysis, sequential switching	Chap 8
12	Nov. 2, 4	Response of second-order RLC circuits, RLC analysis	Chap 8
13	Nov. 9, 11	Exam 3 (Nov. 9) , Sinusoidal steady-state analysis, phasor transform.	Chap 9
14	Nov. 16, 18	Phasor analysis, circuit modeling and analysis,	Chap 9
15	Nov. 23, 25	Fall Break, no classes	
16	Nov. 30, 2	Phasor analysis, transformers and impedance matching.	Chap 9
17	Dec. 7, 9	Final Exam , date to be determined.	

Students called for military duty

- “If you are a student in the military with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact Paul Rakowski in the Dean's office.