

**UNIVERSITY OF MASSACHUSETTS LOWELL**  
**DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING**

16.202 INTRODUCTORY CIRCUIT THEORY II

Spring 2006  
SYLLABUS AND COURSE POLICY

*Instructor:* Prof. Kavitha Chandra  
Professor, ECE  
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*Office Hours:* Tu/Th : 3-4:30 pm

*Text:* Fundamentals of Electric Circuits,  
Charles K. Alexander and M. N.O. Sadiku, McGraw-Hill

*Web Site:* <http://morse.uml.edu/Activities.d/circuits/circuits202/circuits202.html>

Week of	Topics	Chapter Sections	HW / Quiz / Exam
2/6/06	Introduction Sinusoids & Phasors	9.1 : 9.3	
2/13/06	Phasor Rep. of Circuit Elements Impedance & Admittance Kirchoff's Law in Frequency Domain Impedance Combinations AC Circuit Steady-State Analysis Nodal and Mesh Analysis	9.4: 9.7  10.1: 10.3	HW 1 (9,10)
2/20/06	Superposition & Source Transformation Thevenin & Norton Equivalent Circuits AC Power Analysis	10.4: 10.6  11.1 : 11.3	HW 2 (11)  <b>Quiz I</b>
	Power Analysis Continued RMS, Power Factor, Complex Power	11.4 : 11.8	
2/27/06	Laplace Transforms Inverse Laplace Transforms	15.1 : 15.4	<b>Exam I</b> Chapters 9,10,11  HW 3 (15,16)
3/06/06	Circuit Analysis using Laplace Transforms	16.1 : 16.4	
3/20/06	Frequency Response Transfer Function, Bode Plots, Series and Parallel Resonance	14.1 : 14.6	HW 4 (14)  <b>Quiz II</b>
3/27/06	Filter Design Passive Filters	14.7	
3/28/06	Three-Phase Circuits	12.1 : 12.7	HW 5 (12, 13)

4/03/06	Magnetically Coupled Circuits	13.1:13.5	<b>Exam II</b> Chapters 14,15,16
4/10/06	Two Port Networks	19.1 : 19.5	<b>Quiz III</b> HW 6 (19)
4/17/06 Mon Holiday	Two Port Networks Continued	19.6:19.7	
4/24/06	Review / Problem Solving		
5/01/06	Op Amps and other material		<b>Exam III</b>

**NOTE:**

- ◆ Hour Exams and homework quizzes will be held during class time
- ◆ Final Exam (3 hours) will include all material and be held on scheduled day

**Exam/Quiz Policy:**

- ◆ There will be no makeup hour exams or makeup quizzes.
- ◆ If an hour exam is missed for a *valid* reason, the final exam grade may be substituted for missed exam.

**Homework Policy:**

- ◆ Homework assignments and solutions will be posted on the web site. It is your responsibility to download the homework and submit on time. Due dates will be posted.

**Grading Policy:**

Homework Quizzes	15%
3 Hour Exams	40%
Final Exam	35%
Homeworks	10%