



## EEL3302: Electronics I

Fall 2006

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<b>Time/Place:</b>	Wednesday 6:00-8:50 PM          ENG 003
<b>Pre-requisites:</b>	EGN 3373 (Intro to Electrical Systems I)
<b>Problem Session:</b>	TBD
<b>Office Hours:</b>	TBA
<b>Course Text:</b>	Sedra and Smith, <i>Microelectronic Circuits</i> , 5 <sup>th</sup> Edition, Oxford University Press, 2004. ISBN 0-19-514251-9.
<b>Reference Text:</b>	Roy W. Goody, <i>OrCAD PSpice for Windows</i> , 3 <sup>rd</sup> Edition, Vol. I & II are highly recommended

**Course Objective:** To develop an understanding of the basic operation of electronic devices, (i.e. semiconductor diodes, bipolar transistors, and field effect transistors), introduce operational amplifiers (e.g. terminal characteristics, applications, and limitations), and develop the ability to analyze and design electronic circuits using the above circuit elements. The circuit simulator SPICE will be extensively utilized in design/analysis exercises.

**Course Information:** It is the responsibility of the student to gather all the required information to successfully complete this course. Visit the course website on "Blackboard" at least once every 48 hours to check the most recently posted information:

[http://ee.eng.usf.edu/people/Wang/EEL3302-901\\_syllabus.pdf](http://ee.eng.usf.edu/people/Wang/EEL3302-901_syllabus.pdf)

### Grading Policies:

Weekly Quizzes	15%
2 Midterm Exams	40% (20% each)
Spice Assignments	15%
Final Exam	30%
Total	100%

Your final grade will be determined based on the scale below:

A	> 90	D	60-69
B	80-90	F	< 60
C	70-79		

**Exam Format:** **Closed book and notes!!** Formula sheets etc. will be provided.

**Quizzes:** Will be given in class weekly. **NO MAKE UPS!!**

**Home Works:** Will be **recommended but not collected for grading**. However the students are strongly encouraged to work out all of them.

**Academic Honesty:** All work submitted for grading must clearly represent individual and independent effort, although group discussion is encouraged in exchanging ideas. **ZERO TOLERANCE AND NO WARNINGS** will be given. See the USF policy at

<http://www.ugs.usf.edu/catalogs/0304/adadap.htm>

*This syllabus is subject to minor changes and whole scale revisions and is intended to serve as a guide only. If you are unsure of something related to you on this course please ask the instructor.*

**General Class Policies:**

1. Be on time for class.
2. Students **must** read **all chapter assignments** and understand **all examples** given in text.
3. Students are also responsible for **supplementary material** presented in class that may not appear in the textbook.
4. Students are strongly urged to determine and overcome any **deficiencies in their background** (circuit analysis) immediately.
5. Students must **immediately** become familiar with the use of **“Blackboard”** and visit the site **at least once every 48 hours** to check for the most recently posted information. All course announcements will be posted at this site or e-mailed to your USF account.
6. There will be **two midterm exams** and one **final exam**.
7. Make up exams/quizzes **WILL NOT BE ALLOWED** except in the cases of **APPROVED DOCUMENTED** emergencies (i.e. doctor’s/police report etc.).

**Schedule (tentative):**

Week	Dates (Wednesday)	Book Sections	Chapter	Pages
1	Aug. 30	1.1, 1.2, 1.3, 1.4, 1.5	1	5-30
2	Sept. 6	3.1, 3.2, 3.3, 3.4	3	139-171
3	Sept. 13	3.5, 3.6, 3.7, 3.8, 3.9	3	171-216
4	Sept. 20	Review		
5	Sept. 27	4.1, 4.2, 4.3, 4.4	4	235-280
6	Oct. 4	4.5, 4.6, 4.7	4	280-320
7	Oct. 11	4.8, 4.9, 4.10, 4.11	4	320-350
8	Oct. 18	Review		
9	Oct. 25	5.1, 5.2, 5.3, 5.4	5	377-346
10	Nov. 1	5.5, 5.6, 5.7	5	346-485
11	Nov. 8	5.7, 5.8, 5.9, 5.10	5	485-507
12	Nov. 15	Review		
13	Nov. 22	2.1, 2.2, 2.3, 2.4	2	63-89
14	Nov. 29	2.5, 2.6, 2.7, 2.8	2	89-114
15	Dec. 6	Review		
16	Dec. 13	<b>Final Exam- 6:00-8:00pm</b>		

**Important Dates:**

September 4 <sup>th</sup> :	Labor Day Holiday
October 11 <sup>th</sup> :	*** <b>First Midterm Exam I</b> ***
November 10 <sup>th</sup> :	Veteran’s Day Holiday
November 23 <sup>rd</sup> -24 <sup>th</sup> :	Thanksgiving Holidays
November 29 <sup>th</sup> :	*** <b>First Midterm Exam II</b> ***
December 9-15 <sup>th</sup> :	*** <b>Final Exam – 12/13/2006 (6:00-8:00pm)</b> ***

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