

## EE 254 – 1MSU ELECTRONICS II

FA 2012 – TuTh 2:00 pm – 3:15 pm, 407 Pummill Hall

Instructor: Dr. Rohit Dua

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Office Hours: TBD

Administrative

Assistant: Sarah Morrissey, ph. 417-836-6208, 226C Kemper Hall

Required Text: *Microelectronics: Circuit Analysis and Design* by D.A. Neamen, 4<sup>th</sup> Ed

<u>Grading*:</u>	Exam 1	20%
	Exam 2	20 %
	Exam 3	15%
	Homework	15%
	Final Exam	30%

\* An alternate score will be calculated based on Homework 15% and Final Exam 85%. Higher of the two scores will be used to decide the final grade.

### Planned Topics (Tentative)\*

Amplifier Frequency Response	Text Pages Chapter 7
Thermal Management	Chapter 8
Exam 1	
Power Amplifiers	Chapter 8
Feedback and Stability	Chapter 12
Op-Amps and Applications	Chapters 13-15
Exam 2	
Op-Amp Applications: Contd.	Chapter 15
BJT Digital Circuits	Chapter 17
MOSFET Digital Circuits	Chapter 16
Exam 3	
Advanced Topics	Notes
Final Review and Exam	

### Course Policies:

#### GRADES

Letter grades will be based on logical break points in the class distribution. Grades will be no lower than A for 90% or greater, B for 80% to 90%, C for 70% to 80%, D for 60% to 70%, and F for less than 60%. For borderline cases, I reserve the right to consider such things as consistency of scores, class participation, perceived effort, attendance, etc.

\*For some topics external notes will be provided

## STUDENT CONDUCT

Students are responsible for all material announced/presented in class and sent by E-mail. E-mail, using Missouri S&T Blackboard, will be used to distribute class announcements, corrections to assignments, etc. All information pertaining to the class will be available on Missouri S&T Blackboard course website. Regular attendance to class is expected. Attendance will be taken at the BEGINNING of every class period. At the instructor's discretion, absence or tardiness **may** be excused if prior arrangements are made. The only exceptions are documented emergencies or sudden illnesses. A student may be dropped for excessive absences or unsatisfactory work (see *Student Academic Regulations* <http://registrar.mst.edu/academicregs/index.html>). Students should be aware of the Academic Alert System, at Missouri State University, and they are responsible for communications through this system.

If you have a documented disability and anticipate needing accommodations in this course, you should make arrangements early in the semester. Students must request at the Disability Services Staff send a letter verifying the disability and specifying the accommodation needed before such accommodation can be provided.

Incidents of dishonesty, cheating, copying, plagiarism, sabotage, etc. will be subject to penalties including partial or full loss of credit, course failure, etc. Expectations of students are specified in *Student Academic Regulations*. Seek the instructor's guidance on what is acceptable collaboration, conduct, etc. You are responsible for writing your own assignments and for preventing others from copying your work.

*All forms of academic dishonesty and other misconduct will result in a grade of zero for the assignment and other penalties (including failure of the course) at the discretion of the instructor and the department! The department can also recommend expulsion from the university.*

## EXAMINATIONS AND QUIZZES

The in-class exams will be closed book (Additional information will be given later). The portion for a specific exam will be discussed at the review session and will be sent out via e-mail. The dates for the in-class exams will be announced later. A review sheet will be distributed before each exam. The final will be comprehensive. All significant steps to answers must be shown. All answers must be shown in appropriate units. The final exam will be held during the finals week on the day and time set by the registrar's office (the date will be announced at a later time).

Make-up exams will be at the instructor's discretion. They must be arranged PRIOR to the scheduled test date, except in the event of emergencies and sudden illness (which must be documented by the student). If no prior arrangements are made, the missed exams will receive ZERO CREDIT. The questions on make-up exams may be different than those on regular exams.

## HOMEWORK

Homework will be regularly assigned. It must be turned in at the beginning (first five minutes) of the class period for which it is due. LATE HOMEWORK WILL NOT BE ACCEPTED AND WILL RECEIVE ZERO CREDIT. If you cannot attend class, the homework must be turned in early for credit or scanned and emailed to me prior to class time. Solutions to the homework will be available on Missouri S&T Blackboard course webpage. You may work together on the homework, but the solutions must be substantially your own. Incidents of

copying will result in zero credit on the entire assignment for everyone involved and may result in other disciplinary action at my discretion.

The homework sheets must be 8(1/2) x 11 inch pages and must be legible, neat, and stapled together (e.g. pages torn from a spiral notebook and pages with extraneous material on the back will not be accepted). The first page must show your name, course number, and assignment number at the top right-hand corner (an example is shown below). All solution steps must be shown in a logical sequence. Answers must be shown in appropriate units. Failure to follow these instructions will result in zero or reduced credit.

Joe Miner EE 254 Homework X
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