Objectives: Learn the basics of analysis and design of modern electronics, mainly for preparation for advanced courses. Introduction to electronics design projects.

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Class Web (open) page: http://www.ece.osu.edu/~biblyk/ee323/ee323.htm

Most of the class content is on the open web page, eg. the Syllabus. Hidden class content is on the 323 carmen page.

Beginning coursework:

1. Skim over the online Sedra/Smith Preface, Table of Contents, and Chapter 1 and Chp. 1 ppt. Slides.

2. Skim over the online Ulaby/Maharbiz Circuits book and compare its Chapter 1 to the ece323 textbook.

3. Look at the ece323 web link of the MIT combined Circuits/Electronics Intro Course.

4. Install (useful on a usb flash drive) the demo version of TopSpice from www.penzar.com. Your fist homework will include a write up two of the Examples projects (LC Tank and MOSFET I-V) in a short report.

Read the following Class Sheets:

1. Paradox in Circuit Design (Thomas & Rosa)
2. Engineering Design Communication
3. Useful Analog in a Digital World

Read the following other Class Links

1. From my ece582 Web page, look at the TI Analog Design Contest and the Honda iDream Design Contest.

2. From my ece721 Web page, download and skim Chapter 1 (1.1 to 1.4) from the Weste and Harris textbook.

Grading:

Homework (maybe quizzes) – 17% Design Report – 13%
Exam 1 – 30% Exam 2 – 40%

ECE Honor System for Individual work.