

EE7326.501
Analog Integrated Systems Design
Fall 2008
MW 7:00-8:15PM
ECSS 2.311

INSTRUCTOR **Adjunct Professor Dr. Jim Hellums**

COURSE CONTENTS

The design and implementation of analog integrated systems in CMOS, BiCMOS, and Bipolar technologies will be discussed in this course though the emphasis will be on CMOS. Knowledge of analog circuit design and device physics will be assumed. The course will include the design of systems such as Data Converters (both Analog-to-Digital and Digital-to-Analog), Filters, PLLs, and Oscillators. More than one type of each analog system will be developed. Emphasize will be on the most used types in industry.

Background Knowledge Needed: UNIX operating system, Industrial level SPICE coding, Plotting programs such as CosmoScope or Simgraph, etc.

Prerequisite: EE6326 or permission of the instructor