UNIVERSTIY OF CALIFORNIA, DAVIS Department of Electrical and Computer Engineering

Analog Integrated Circuits EEC 1890, Fall 2009

LECTURE: Tues, Thur 9am-10:30 in 130 Geology/Physics

LAB: Tu noon-3pm in 2157/2161 Kemper

INSTRUCTOR: P. Hurst

OFFICE HOURS: Tu Th 10:30-11:30am in 2031 Kemper

TEACHING ASSISTANTS: TBA

CLASS WEB PAGE: http://www.ece.ucdavis.edu/~hurst/EEC1890/

TEXT: P. Gray, P. Hurst, S. Lewis and R. Meyer, "Analysis and Design of Analog Integrated Circuits," Wiley, 5th ed.

PREREQUISITES: EEC 110B

COURSE OBJECTIVE: This course will focus on analog bipolar integrated circuit design. A short introduction to the transistors and models will be followed by coverage of one stage amplifiers, current sources, the differential pair, cascaded amplifiers, op amps, frequency response, and feedback amplifiers.

There will be homework assignments, weekly labs follwed by a three-week-long design project, a midterm exam and a final exam. The homework assignments will not be graded. A report for each lab and a project report must be turned in by each student to pass the course.

GRADING: Lab (including project) 35%, Midterm 25%, Final 40%