

# ENGR4210 : Microelectronics

A study of diodes, BJT and MOS transistors, and other semiconductor devices. Transistors in basic amplifier circuits. AC equivalent circuit models, frequency response, single and multi-state amplifiers. Differential, power and feedback amplifiers, oscillators and analog building blocks. CMOS circuits including filters, oscillators, and phase-locked loops. **Fee:** Additional fee required.

**Credits** 3

**Prerequisite Courses**

ENGR2210

**Fees**

\$300