

# ECE 8566: RFIC Design

Fundamental principles for design of integrated circuits for use at radio frequency using CMOS technology. Topics: introduction to communications circuits and parameters, issues in RFIC design: noise, linearity, filters, review of technology; fabrication process, MOSFET transistors, design, simulation and use of passive elements in the MOS process, impedance matching, amplifier design; and low noise and general gain circuits, mixers, oscillators, power amplifiers.

**Credits:** 3.0