EERF 6330 RF Integrated Circuit Design (3 semester credit hours) Introduction to RF and wireless systems; basic concepts of RF design: linearity, distortion, (P1dB, IIP3), sensitivity, noise figure; RF passives: Q-factors, impedance transformation, matching network; transceiver architectures: Receivers - Heterodyne, direct down-conversion, image reject receivers, direct conversion transmitter, two-step transmitter; low noise amplifier design; mixer design; oscillator design; basic architectures of power amplifiers. Industry-standard CAD tools will be used for design projects. Prerequisite: EE 4340. (3-0) Y (2016-02-05 23:54:01)