

EERF6340 - Active Microwave Design Laboratory

[EERF 6340](#) Active Microwave Design Laboratory (3 semester credit hours) Design of linear and non-linear microwave active circuits. Theory and design procedures are comprehensively studied including: component characterization, biasing, linear and non-linear analysis. Students will design, fabricate, and characterize several circuit types to demonstrate mastery of design procedures. Course projects may include, but are not limited to: low-noise amplifiers, mixers, VCOs, and power amplifiers. Commercially available CAD tools will be used for design. Corequisite: [EERF 6355](#) or [EERF 6330](#). Prerequisites: [EERF 6311](#) and [EERF 6396](#). (2-1) R