ECE 581  **Advanced Analog IC Design**  credit: 4 hours.
Advanced topics in modern analog IC design. Emphasis on CMOS building blocks and circuit techniques as a result of fabrication technology advancement. Noise in linear analog circuits; linear feedback theory and stability; harmonic distortion in weakly nonlinear circuits; switched-capacitor circuit technique and realization; Nyquist-rate and oversampled data converters. Extensive computer simulations required in both homework and final project. Prerequisite: ECE 310 and ECE 483.

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<th>CRN</th>
<th>Type</th>
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<th>Time</th>
<th>Days</th>
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<th>Instructor</th>
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<td>54423</td>
<td>Lecture</td>
<td>B</td>
<td>10:00 AM - 11:20 AM</td>
<td>MW</td>
<td>2013 - Electrical &amp; Computer Eng Bldg</td>
<td>Hanumolu, P</td>
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Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.