## EE280 in the context of the BSECE Pathways

- At the present time, EE331 is a prerequisite to EE332. This is primarily due to the fact that a student needs to know the basics of semiconductor device physics (taught in EE331) and diode circuits to succeed in EE332.
- EE280 now teaches the basics of device physics and examples of how device physics are applied to diode circuits and to digital, transistor level circuits. There is no additional space in EE280, however, to cover transistor level analog circuits. Regardless, devices physics (MOSFET and Diode) can be removed or minimized (to a review level) in EE331 and/or EE332.
- Therefore, EE331 and EE332 are now open to being (a) decoupled so that EE331 is no longer a prerequisite for EE332; and (b) redesigned so that EE331 serves the needs of digital VLSI pathway students and EE332 meets the needs of the analog integrated systems and device-oriented pathways.
- Thus, the proposed changes to EE280 do not detrimentally impact students' preparation for circuits-related pathways.



## EE280 MCD Modifications

## • Summary of Changes

- Labs shortened as needed to respond to student feedback
- Content adjusted to reflect what is currently being taught (as a result of too much content being placed in the original MCD)
- Major changes are that (a) small signal models and small signal model parameters (as well as an introduction to transistor level analog circuits) is not longer included in EE280 content and (b) photonic/optical devices have been expanded to allow for more proportionate coverage.
- Motion to approve new EE280 MCD