

Course Information

EE 482, Semiconductor Devices

Winter 2011

Professor:	Scott Dunham EE1 218, 543-2189 dunham@ee.washington.edu http://dunham.ee.washington.edu/ee482
Office hours (tentative):	M 9-10am, F 2-3pm
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Office hours:	TBA
Text:	“Device Electronics for Integrated Circuits, 3rd ed.” by Muller and Kamins (with Chan)
Reference Texts:	“Advanced Semiconductor Fundamentals” by Pierret “Semiconductor Physics and Devices” by Neamen “Semiconductor Device Fundamentals” by Pierret “Solid State Electronic Devices” Streetman “Devices for Integrated Circuits,” by Casey “Semiconductor Devices: An Introduction” by Singh
Simulation Software:	Sentaurus Device (Synopsys) Available on Linux machines in EE domain
Grading Policy:	Homework: 10% Exam 1: 25% Exam 2: 25% Final: 40%
Prerequisites:	Devices and Circuits (EE 331, 332 (co-req)): basic semiconductor device behavior Electromagnetics (Phys 122/3, EE 361 (co-req)): Poisson’s equation, wave equation