

PHYS 235 Spring 2009

Schedule for Unit 3: Digital Electronics

Date	Topic	Suggested Problems
Mar. 17	Lecture 14 — 555 Timer; Clocked Flip-Flops; Counters Lab 14 — 555 Clock/Timer, Type-D Flip-Flops, Counters	75–84
Mar. 19	Lecture 15 — More Logic, Algebra, and Gates Lab 15 — Decade Counter	85-94
Mar. 24	Lecture 16 — One-shots; Intro. to A/D Conversion Lab 16 — One-Shots and Shift Registers	95-98
Mar. 26	Lecture 17 — Analog-to-Digital Conversion Lab 17 — Analog-to-Digital Conversion	99
Mar. 31	Lecture 18 — Digital-to-Analog Conversion Lab 17 — Analog-to-Digital Conversion (cont'd)	100
Apr. 2	Lecture 19 — Intro. to Fourier Analysis Lab 18 — Introduction to LabView	101–107
Apr. 7	Lecture 20 — Fourier Analysis Lab 20 — Computer Interfacing: Analog I/O	
Apr. 9	Lecture 21 — FFTs, Power Spectrum, and Scopes Lab: Start Projects	
Apr. 14	Exam III Lab X — Transducers	