

Electronics For Scientists
 V85-0110
 G85-1500

Spring 2007
 Prof. Andrew D. Kent
 Laboratory Instructor: N/A

COURSE SYLLABUS

Texts:

1. "The Art of Electronics," P. Horowitz and W. Hill, (Cambridge, Univ. Press, 2nd Ed.)
2. "Student Manual for the Art of Electronics," T. C. Hayes and P. Horowitz
3. Supplementary Notes, A. D. Kent

Dates	Lab	Topic	Ch.	Sec.	Manual	Labs
Jan. 22	0/1	DC circuits	1	1.00 – 1.10, appendix A&C	Suppl. Notes & Class 1	1.1 to 1.6
Feb. 4	2	AC circuits	1	1.11 – 1.24	Class 2	2.1 to 2.8
Feb. 11	3	Diodes & Power Sup.	1	1.25 – 1.34	Class 3	3.1 to 3.7
Feb. 19*	4	Transistors I		2.00 – 2.07	Class 4	4.1 to 4.3, 4.5
Feb. 25	5	Operational Amplifiers I	4	4.01 – 4.09	Class 8	8.1 to 8.7
Mar. 3	6	Op-Amps II	4	4.10 – 4.22	Class 9	9.2 to 9.4
Mar. 10*	7	Positive Feedback	4	4.23 – 4.26	Class 10	10.1, 10.2, 10.6
Mar. 24	8	Digital Electronics I	8	8.01 – 8.13	Class 13	13.1 & 13.2
Mar. 31	9	Digital Electronics II	8	8.16 – 8.19	Class 14	14.1 to 14.6 (omit 14.5)
Apr. 7	10	Counters I	8	8.24 – 8.26	Class 15	15.1 to 15.5
Apr. 14 ⁺	10	Counters II	9			
Apr. 21	10	Final Projects: More Counters				15.6, 15.7, 15.8
Apr. 28		Or Elements of a Computer				16.1 to 16.3
May 4		Review				
May 9		Final Exam				

*No Meetings. There will be labs these weeks