

## Physics 326 – Electronics

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### Lectures:

There are lectures three days a week and they will be closely tied to the material in the lab course, Physics 331. There are 13 weeks.

Officially Lectures: Monday 1:30pm – 3:20 pm, Wednesday 1:30 pm – 2:20 pm  
Tutorial: Wednesday 2:30–3:20 pm  
In fact we may use Wednesday's lectures and tutorial time for lab work.

### Homework:

Usually one assignment per week, due one week from the date assigned. Late homework *may* be accepted only at the discretion of the marker. Of course, no late homework will be accepted after it has been marked. If accepted, there will be a late penalty of 10%/day.

### Midterms:

One midterm exam to be scheduled later.

### Final Exam:

The final exam will be three hours long and will be scheduled during the final exam period.

### Marking Scheme:

Homework	25%
Midterm	25%
Final Exam	50%

We will try to scale the grades to produce a fair distribution of marks roughly similar to those of comparable students in previous years.

Textbooks: The assigned text for the course is Alberto Malvino, *Electronic Principles, 6th ed.*, Glencoe-McGraw-Hill, 1999. Older editions of this text may be acceptable.

This is a very slow-moving book that seems to have very clear explanations. If you already know some electronics you may find it a little boring.

If Malvino is not to your liking we also have as an optional text Horowitz and Hill, *The Art of Electronics, 2nd ed.*, Cambridge, 1989

Horowitz and Hill is a large compendium of information on all aspects of electronics from Ohm's law to computers. It is an excellent reference after you know electronics.

For the lab Course we have Hayes and Horowitz's *Student Manual for the Art of Electronics*. This is full of useful information and many of the lab experiments were inspired by this book. It isn't really good as a complete text though. This book is available from the bookstore or we can lend you a copy for a \$40 deposit.

#### Library Books:

	AUTHOR: Brophy, James John, 1926-			
	TITLE: Basic electronics for scientists / James J. Brophy.			
	EDITION: 5th ed.			
	IMPRINT: New York : McGraw-Hill, c1990.			
	Call	Cpy		
Location	Number	#	Status	
RESERV	TK 7815 B74 1990	1	On Reserve	
	AUTHOR: Cox, James F.			
	TITLE: Electronic principles : integrated and discrete / James F. Cox, S.			
R>	IMPRINT: Englewood Cliffs, N.J. : Prentice-Hall, c1987.			
	Call	Cpy		
Location	Number	#	Status	
RESERV	TK 7816 C66	1	On Reserve	
	AUTHOR: Horowitz, Paul, 1942-			
	TITLE: The art of electronics / Paul Horowitz, Winfield Hill.			
	EDITION: 2nd ed.			
	IMPRINT: Cambridge [England] ; New York : Cambridge University Press, 1989.			
	Call	Cpy		
Location	Number	#	Status	
RESERV	TK 7815 H67 1989	1	On Reserve	
	AUTHOR: Malvino, Albert Paul.			
	TITLE: Electronic principles / Albert Paul Malvino.			
	EDITION: 4th ed.			
	IMPRINT: New York : McGraw-Hill, c1989.			
	Call	Cpy		
Location	Number	#	Status	
RESERV	TK 7816 M25 1989	1	On Reserve	
	AUTHOR: Kip, Arthur F.			
	TITLE: Fundamentals of electricity and magnetism [by] Arthur F. Kip. --			
	EDITION: 2d ed. --			
	IMPRINT: New York : McGraw-Hill, [1968, c1969]			
	Call	Cpy		
Location	Number	#	Status	
STACKS	QC 518 K5 1968	1	In Library	
	AUTHOR: Malvino, Albert Paul.			
	TITLE: Digital principles and applications / Albert Paul Malvino, Donald			
P.>	EDITION: 4th ed.			
	IMPRINT: New York : McGraw-Hill, c1986.			
	Call	Cpy		
Location	Number	#	Status	
RESERV	TK 7868 D5 M3 1986	1	On Reserve	