

Fall 2012

## Electronics I

### Prerequisites

None

### Syllabus

1. Introduction to Semiconductors
2. Diode Applications
3. Special-Purpose Diodes
4. Bipolar junction Transistors
5. Small-Signal Bipolar Amplifiers
6. Operational Amplifiers
7. Basic Op-Amp Circuits
8. Field-Effect Transistors (FETs)
9. Active Filters

### Text Book

Thomas L. Floyd, "Electronic Devices," 9<sup>th</sup> ed., 2011. (全華代理)

### Optional Text

A.S. Sedra and K. C. Smith, "Microelectronic Circuit," 5<sup>th</sup> ed., Oxford University Press.

### Grading Policy

Homework: 10%, Quizzes 30 %	40 %
Midterm	30 %
Final Exam	30 %

### Teaching Assistant

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TBD

### Instructor

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Office Hours: Thur 14:00 - 17:00 or by appointment

T3T4, R4

9/13, 9/15		11/15, 11/17	
9/20, 9/22		11/22, 11/24	
9/27, 9/29		11/29, 12/1	
10/4, 10/6		12/6, 12/8	
10/11, 10/13		12/13, 12/15	Quiz 2
10/18, 10/20	Quiz 1	12/20, 12/22	
10/25, 10/27		12/27, 12/29	
11/1, 11/3		1/3, 1/5	Final
11/8, 11/10	Midterm		

All exams are on Thursday. (11:10-12:30)