

Fall 2013

## 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

E-Mail:

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Office Hours:

### Instructor

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T3T4, R4

9/17		11/12, 11/14	
9/24, 9/26		11/19, 11/21	
10/1, 10/3		11/26, 11/28	
10/4, 10/6		12/3, 12/5	
10/8		12/10, 12/12	Quiz 2
10/15, 10/17	Quiz 1	12/17, 12/19	
10/22, 10/24		12/24, 12/26	
10/29, 10/31		12/31, 1/2	
11/5, 11/7	Midterm	1/7, 1/9	Final

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