

Fall 2011

## Electronics I

### Prerequisites

None

### Syllabus

1. Introduction to Semiconductors
2. Diode Applications
3. Special-Purpose Diodes
4. Bipolar junction Transistors
5. Transistor bias Circuits
6. Small-Signal Bipolar Amplifiers
7. Power Amplifiers
8. Thyristors and Other Devices
9. Operational Amplifiers
10. Basic Op-Amp Circuits

### 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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