



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Electronic Devices and Circuits  
**Course Number:** EET123

### Required Materials

**Textbook(s):** Electronic Devices (Conventional Current Version), 10th edition

Published by Pearson (January 5, 2017)© 2018

By Thomas L. Floyd, David M. Buchla, Steven Wetterling

It can be the hard copy of text and lab manual or the online version of both text and lab manual.

Printed copy ISBN-13: 9780134414447 Electronic Devices (Conventional Current Version)

or E-Text copy ISBN-13: 9780137526642 Electronic Devices (Conventional Current Version)

**Required Readings:** None

**Additional Materials:** Slides, handouts & additional information available on Internet.

Optional evaluation text: Semiconductor Devices: Theory & Application (2.0.1): by Fiore

### Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Chapter 1-Intro to Semiconductors, Chapter 2- Diodes & Applications, Lab#1 Diode Characteristics and Excel Spreadsheet Graph
2	Chapter 3-Special-Purpose Diodes, Lab#2 Diode Applications, Half and Full Wave Rectification, Clipping & Clamping Circuits
3	Chapter 4-Bipolar Junction Transistors, Lab #2A: Series & Parallet Diodes Circuits, Lab#3 Special Purpose Diodes:Zener, Varactor, LED
4	Lab#4 Bipolar Junction Transistors, Lab#5-Transistor Bias Circuits
5	Chapter 6- BJT Amplifiers, Lab #6: BJT Amplifiers
6	Chapter 7-BJT Power Amplifiers, Lab #7 Power Amplifiers, Review for Mid Term
7	Mid Term Test
8	Chapter 8-Field-Effect Transistors, Lab#8 Field-Effect Transistors
9	Chapter 9-FET Amplifiers & Switching Circuits, Lab #9 FET Amplifiers & Switching Circuits, Chapter 10- Amplifier Frequency Responses
10	Chapter 11-Thyristors, Lab #11 Thyristors
11	Chapter 13-Op-Amp circuits, Lab#12-A Operational Amplifiers, Open Lab Catch Up-Sign in at the cage,
12	Chapter 14- Special Purpose IC, Lab #13-A Basic Op-Amp Circuit, Comparator, Summing Amp, Integrator & Differentiator
13	Chapter 15-Active Filters, Lab#14-A Special Purpose Op-Amp Circuits, Instrumentation OpAmps, Chapter 16 Oscillators
14	Chapter 17-Voltage Regulators, Lab #17 Voltage Regulators
15	Chapter 18-Communication Devices and Methods, Review for Final
16	Final Exam, Optional Post Final Review