

Tentative Schedule

| Week | Date | Topics | Lab and Assignments Due |
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| 1 | 01-29 (Lec 0) (no lab) | Lecture 0: Lab Background, Instrumentation, Safety, Experimental Errors, and Statistics. HW#1: Equipment and Measurement modeling assignment; HW#2: Data Analysis Assignment. | |
| 2 | 02-5 (Lec 1) (no lab) | Lab 1 Lecture: Measuring Capacitance, transfer function (frequency sweep) using LabVIEW and GPIB. Lab 1 assignment. | Due: HW#1 in PDF to TA by email before the lecture |
| 3 | 02-12 (Lec2); 02-15,17 (no lab) | Lab on 02-15, 17 and Lecture on 02-19 cancelled | Snow storm |
| 4 | 02-19 (No Lec); 02-22,24 (Lab1) | Lab 2 Lecture: Characterizing Diodes and FETs, model parameters, transfer characteristics (amplitude sweep). Lab 2 assignment. Quiz 1 for Lab 1 assignment. | In Lecture: Quiz 1 (open book). In Lab: Prelab 1 due, Do Lab 1, Lab1-DataSheet. |
| 5 | 02-26 (Lec3); 03-01,03 (Lab2) | Lab 3 Lecture: Diode Clipping Circuits; Lab 3 assignment. Quiz 2 for Lab 2 assignment. | In Lecture: Quiz 2 (open book). In Lab: Prelab 2 due, Lab1 Report, Do Lab 2 Lab2-DataSheet. |
| 6 | 03-05 (Lec4); 03-08,10 (Lab3) | Lab 4 Lecture: DC Power Supply. Lab 4 assignment. Quiz 3 for Lab 3 assignment. | In Lecture: Quiz 3 (open book) and Prelab 3 due. In Lab: Lab2 Report, Do Lab 3, Lab3-DataSheet. |
| 7 | 03-12 (Lec5); 03-15,17 (Lab4) | Lab 5 Lecture: Biasing N-Channel MOSFET Transistor. Lab 5 assignment. Quiz 4 for Lab 4 assignment. | In Lecture: Quiz 4 (open book) and Prelab 4 due. In Lab: Lab3 Report, Do Lab 4, Lab4-DataSheet. |
| 8 | 03-19 (Lec6); 03-22,24 (Lab5) | Lab 6 Lecture: MOSFET Common Source Amplifier. Lab 6 assignment. Quiz 5 for Lab 5 assignment. | In Lecture: Quiz 5 (open book). In Lab: Prelab 5 due, Lab4 Report, Do Lab 5, Lab5-DataSheet. |
| 9 | 03-26 (Lec7); 03- 29,31 (Lab6) | Lab 7 Lecture: CMOS Logic Gates. Lab 7 assignment. Quiz 6 for Lab 6 assignment. | In lecture: Quiz 6 (open book). In Lab: Prelab 6 due, Lab5 Report, Do Lab 6, Lab6-DataSheet. |
| 10 | 04-02 (Lec8); 04/05,04-07 (Lab7) | Lab 8 Lecture: AC BJT Amplifier. Lab 8 assignment. Quiz 7 for Lab 7 assignment. | In Lecture: Quiz 7 (open book). In Lab: Prelab 7 due, Lab6 Report, Do Lab 7, Lab7-DataSheet. |
| 11 | 04-09 (Lec9); 04-12,14 (Lab8) | Lab 9 Lecture: Differential Amp and SPICE simulation. Lab 9 assignment-Individual SPICE simulation. Quiz 8 for Lab 8 assignment. | In Lecture: Quiz 8 (open book). In Lab: Prelab 8 due, Lab7 Report, Do Lab 8, Lab8-DataSheet. |
| 12 | 04-16 (no lecture); 04-19,21 (no lab) (Lab9: Simulation) | No Lecture. No Lab. Do Lab 9 SPICE simulation using your own computer. <i>Each student needs to submit a Lab 9 report!</i> | Lab 9: Implement Differential Amp in SPICE and compute amplifier parameter from SPICE output. |
| 13 | 04-23 (Lec10); 04- 26,28 (open lab) | Lecture 10: Final Lab Exam Projects. Open Labs – Practice for Final Lab Exam | Lab 9 Report due |
| 14 | 04-30 (no lec); 05-03,05 (open lab) | Final Lab Exam (Group Demonstrations) | Final Project Report due in lab. |

