ENS 203 Electronic Circuits I
Fall 2023-2024

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Catalog Data: ENS 203 Electronic Circuits I (3 cr.) Prerequisites: MATH 102. Passive components, basic circuit analysis, first order circuits, transient and steady state analysis, second order RLC circuits, resonance, amplifier fundamentals, operational amplifiers, introduction to diodes and transistors.

Textbook:

Computer Usage: Circuit simulation using LTspice®.

Course Objective: Learn and apply principles of circuit theory to the analysis and design of basic electronic circuits.

Weekly Schedule:

01 02/10–06/10 1. Introduction 1.1–1.7
02 09/10–13/10 2. Resistive Circuits 2.1–2.4
03 16/10–20/10 2. Resistive Circuits (cont’d) 2.5–2.8
04 23/10–27/10 2. Resistive Circuits (cont’d) 2.5–2.8
05 30/10–03/11 3. Inductance and Capacitance 3.1–3.5
06 06/11–10/11 4. Transients 4.1–4.4
07 13/11–17/11 5. SS Sinusoidal Analysis 5.1–5.6
08 20/11–24/11 5. SS Sinusoidal Analysis 5.1–5.6
09 27/11–01/12 6. Freq. Response 6.1–6.3
10 04/12–08/12 6. Freq. Response 6.1–6.3
11 11/12–16/12 9. Diodes 9.1–9.5
12 18/12–22/12 10. Amplifiers 10.1–10.3
14 02/01–05/01 13. Operational Amplifiers 13.1–13.5

General Rules
• Homework and simulation assignments are weekly announced.
• Submission deadlines and exams are never postponed.
• Cheating and late submissions are severely penalized.
• Two midterms, one final exam. Dates TBA.
• Makeups to be held week following missed exam.
• Official medical report required to attend a make-up.
• Students required to get at least 25/100 from the final exam to pass ENS203.

Grading: Midterms 50% (25% each); Homework & Assignments 20%, Final 30%. 