ENS 203 Electronic Circuits I
Fall 2020-2021

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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  05/10–09/19  1. Introduction  1.1–1.7
02  12/10–16/10  2. Resistive Circuits  2.1–2.4
03  19/10–23/10  2. Resistive Circuits (cont’d)  2.5–2.8
04  26/10–27/10  2. Resistive Circuits (cont’d)  2.5–2.8
05  02/11–06/11  3. Inductance and Capacitance  3.1–3.5
06  09/11–13/11  4. Transients  4.1–4.4
07  16/11–20/11  5. SS Sinusoidal Analysis  5.1–5.6  MIDTERM #1
08  23/11–27/12  5. SS Sinusoidal Analysis  5.1–5.6
09  30/11–04/12  6. Freq. Response  6.1–6.3
10  07/12–11/12  6. Freq. Response  6.1–6.3
11  14/12–18/12  9. Diodes  9.1–9.5  MIDTERM #2
12  21/12–25/12  10. Amplifiers  10.1–10.3

General Rules
- Homework and simulation assignments are weekly announced.
- Submission deadlines and exams are never postponed.
- Midterm exams will be held during class hours on Mondays.
- Cheating and late submissions are severely penalized.
- All classes and recitation sessions will be synchronously held.

Grading: Midterm#1 20%; Midterm#2 20%; Homework & Assignments 30%; Final 30%.