## Fall 2023 COURSE SCHEDULE

### Week 1
- **08/22**  
  **T**  Introduction, Basic electrical units & symbols, Kirchhoff's laws  
  **Th**  Resistance, Ohm's law, Power, Resistors in parallel & series  
  **Textbook**  Ch1, 2.1-3, 2.17, 2.5-7, 2.11-12, 3.5

### Week 2
- **08/29**  
  **T**  Voltage and current dividers, Sources, Nodes, Grounds, Branches, Meters  
  **Th**  Superposition, Practical voltage and current sources  
  **Textbook**  2.10, 2.12-16, 2.18, 3.2

### Week 3
- **09/04**  
  **M**  Labor Day

### Week 4
- **09/12**  
  **T**  Networks, Nodal analysis  
  **Th**  Introduction to AC & Signals, Capacitors  
  **Textbook**  2.17, notes, 2.29, 2.33

### Week 5
- **09/19**  
  **T**  Exam 1
  **Th**  Capacitors, Inductors  
  **Textbook**  2.23, 3.6, 2.24

### Week 6
- **09/26**  
  **T**  Inductors, Resonance, RC first order transients  
  **Th**  First order transients, Recall complex numbers  
  **Textbook**  2.24, 3.7, 2.30, 2.34

### Week 7
- **10/03**  
  **T**  Complex numbers, Steady-state Sinusoids, Phasors, & Impedance  
  **Th**  Phasors, Impedance, & AC circuits  
  **Textbook**  2.25-26, 2.27

### Week 8
- **10/10**  
  **T**  AC circuit examples  
  **Th**  Filters & Bode plots  
  **Textbook**  2.29-30, 2.31-33, notes

### Week 9
- **10/24**  
  **T**  Second order transients, Laplace Impedance, Transfer functions  
  **Th**  Second order transients, Time-domain solutions  
  **Textbook**  2.34, notes

### Week 10
- **10/31**  
  **T**  Second order transients, Initial and final conditions  
  **Th**  Second order transient examples, Systems  
  **Textbook**  notes

### Week 11
- **11/07**  
  **T**  Diodes basics, Diodes in DC circuits  
  **Th**  Diodes in AC circuits, Rectification  
  **Textbook**  4.2, 4.2, notes

### Week 12
- **11/14**  
  **T**  Exam 3
  **Th**  Transistors, Operational Amplifiers  
  **Textbook**  Ch 8

### Week 13
- **11/21**  
  **T**  Operational Amplifiers  
  **Th**  Thanksgiving

### Week 14
- **11/28**  
  **T**  Op Amps, RMS and AC Power  
  **Th**  AC Power  
  **Textbook**  2.21-22

### Week 15
- **12/05**  
  **T**  AC Power, examples, ME Design day  
  **Th**  AC Power, Transformers, 3 phase, Y, Delta  
  **Textbook**  2.28, 3.8, Appendix A

---

ECE 2200 Fall 2023 Course Schedule