

# Biomedical Electronic Measurements

BME253L (Fall 2025)

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Module	Materials	Assessment	Lab Exercise
Voltage & Current Series & Parallel Resistance Ohm's & Kirchhof's Laws	<a href="#">Introduction to Circuits Ohm's Law, KCL &amp; KVL, Resistive Loads, Meters</a>	<a href="#">Software Installation &amp; Tutorials Problem Set 01</a>	<a href="#">Introduction</a>
Voltage & Current Dividers Node Voltage & Mesh Current Analysis Thevenin & Norton Equivalent Sources Source Superposition Midterm I (Sep 22, 2025)			<a href="#">Ohm's Law &amp; Power</a>
Capacitors & Inductors DC RC/RL Circuit Analysis			<a href="#">Capacitors, Inductors &amp; Oscilloscopes</a>
Complex Impedance, AC Signals, Phasors			<a href="#">Impedance</a>
AC RLC Circuit Analysis Passive Filters Transfer Functions & Bode Plots (Frequency Domain)			<a href="#">Filters</a>

Module	Materials	Assessment	Lab Exercise
Transient Response (Time Domain)			Transient Response
Midterm II (Oct 08, 2025)			
Operational Amplifiers & Active Filters			Opamps
Transformers & Diodes			Transformers & Diodes
Midterm III (Dec 03, 2025)			
Wheatstone Bridge			Wheatstone Bridge: Temperature Measurement
Final Lab Practical (Dec 10, 2025)			