Biomedical Electronic Measurements

BME253L (Fall 2025)

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| ECAD (KiCad) | Equivalents -> ECAD using KiCad: Schematic Capture -> ECAD using KiCad: SPICE Modeling | | -> Schematic Capture & SPICE Simulation |
| Midterm I (Sep 22, 2025) | 0 | | |
| Capacitors & Inductors DC RC/RL Circuit Analysis | | | Capacitors, Inductors & Oscilloscopes |
| Complex Impedance, AC Signals, Phasors | | | Impedance |

| Module | Materials | Assessment | Lab Exercise |
|----------------------|-----------|------------|--------------------|
| AC RLC Circuit | | | Filters |
| Analysis Passive | | | |
| Filters Transfer | | | |
| Functions & Bode | | | |
| Plots (Frequency | | | |
| Domain) | | | |
| Transient Response | | | Transient Response |
| (Time Domain) | | | |
| Midterm II (Oct 08, | | | |
| 2025) | | | |
| Operational | | | Opamps |
| Amplifiers & Active | | | |
| Filters | | | |
| Transformers & | | | Transformers & |
| Diodes | | | Diodes |
| Midterm III (Dec 03, | | | |
| 2025) | | | |
| Wheatstone Bridge | | | Wheatstone Bridge: |
| | | | Temperature |
| | | | Measurement |
| Final Lab Practical | | | |
| (Dec 10, 2025) | | | |