

Engineering Specifications

ID	CN Address	Metric	Unit	Nominal	Ideal	Comments
1	1	Level of understanding	%	70	100	Open lab quiz will measure understanding of lab activity concepts
2	6	Activity time spent doing "hands-on" work	%	50	100	This includes all lab activity except for reading the lab manual
3	6	Design possibilities/outcomes	#	8	Infinite	H/W: HPF, LPF, BPF, active, inactive, first order, second order, etc.; S/W: Blur, Edge detection, HPF, LPF, etc.
4	9	Storage footprint of hardware	in	12x12x3	6x6x2	
5	9	Maintenance time (minor)	min	10	10	Minor repair such as replacing a wire or simpler
6	9	Repair (major) time	min	90	60	i.e. replacing PCB, audio rec board, breadboard, etc.
7	10	Compatible with laboratory (GLE-2120) support equipment	Y / N	Yes	Yes	i.e. DC power supply, oscilloscope, multimeter, DAQ, computer
8	11	Lab activity duration	min	80	100	Includes reading the lab manual and performing all in lab activities
9	12	Maximum audio level @ 1 ft	dB	80	80	Hearing damage possible (but unlikely) above this level