30	***Communication***
4	Work recorded in notebook (rather than pasted in)
8	Complete information: task descriptions, diagrams, data, reproducible one year later
4	Written in Ink
4	Student Signed every page
4	Student Dated every page
6	TA Signature for every lab session (-3 each session missed)

Lab 4

14 V.	**DESIGN OF CIRCUIT**
6	Equation for C_1
1	Calculated value for C_1
6	Equation for C_2
1	Calculated value for C_2
14 VI.	**CHARACTERIZATION OF COMPONENTS**
	A. *Resistor*
1	Measured value of 10 kΩ resistor
	B. *Inductor*
2	Measured value of inductor
2	Measured value of R_s
4	Measured value of C_s
3	Expanation of measurement procedures for L, R_s, and C_s
	C. *Capacitors*
2	Measured values of C_1 and C_2
22 VII.	**PLOTS OF FILTER RESPONSE**
	B. *Transfer Function*
6	Listing of Matlab® function that calculates $H(j\omega)$
	C. *Frequency Response*
6	Listing of Matlab® script file that calculates $H(j\omega)$ for $\omega = 0$ to $2\pi \cdot 6$ kr/s
	D. *Plot of Frequency Response*
4	Listing of Matlab® script file that plots $H(j\omega)$ for $\omega = 0$ to $2\pi \cdot 6$ kr/s
3	Plot of predicted $H(j\omega)$ for $\omega = 0$ to $2\pi \cdot 6$ kr/s for ideal components
3	Plot of predicted $H(j\omega)$ for $\omega = 0$ to $2\pi \cdot 6$ kr/s for measured components
12VIII.	**CONSTRUCTION AND MEASUREMENT OF FILTER CIRCUIT**
1	Sketch of RC charge and discharge curve for R_1 and C_1
4	Measured frequency response of filter for $f = 0$ to 6 kHz
4	Listing of Matlab® code for plot of measured filter response for $f = 0$ to 6 kHz
3	Plot of filter response for $f = 0$ to 6 kHz superimposed on plot from VII.D
8 IX.	**EFFECT OF FILTER ON TRIANGLE WAVE**
2	Listing of Matlab® code for plot of filter input and output
3	Matlab® plot of filter input and output for 1 kHz triangle wave input
3	Comment on whether filter eliminates 1 kHz component of triangle wave