ENSC 220
Fall 2016
Lab 1

Due: Sunday, October 2, 2016

Group members:

1. Name:

Student No. | | | | | | | | |

2. Name:

Student No. | | | | | | | | |

3. Name:

Student No. | | | | | | | | |

Each Lab group submits one completed worksheet based on the instructions given in Lab 1.

Lab 1: Verification of KVL and KCL Worksheet

DMM accuracy

Voltage	Current	Resistance

Resistor values

	Nominal	Measured		
R1			±	
R2			±	
R3			±	

KVL

	Expected (based on measured resistance and V_{in})	Measured		
V_{in} (nominal)			±	
V_{R1}			±	
V_{R2}			±	

KCL

	Expected (based on measured resistance and V_{in})	Measured		
I_{R1}			±	
I_{R2}			±	
I_{R3}			±	

Discussion:

Show how equipment accuracy and measurement errors propagate through the expressions and affect the expected value of $\mathbf{V_{R1}}$.

Explain how the measurement process affects the resistances, voltages, and currents that you are measuring (one or two sentences and/or a diagram).