Duration:	**12 weeks**
Course:	**Electronic Applications**
Instructor:	**Tom Heron**

Course Objective: This course is designed to give the students practical experience with the electronic components learned in electronics in the second semester. They will also learn how to use their multi-metre and soldering iron while assembling an electronics kit.

Bio: Audio Mixer at Breakthrough Productions. Former Senior Engineer at Reaction Studios and Assistant Engineer at McClear Place Studios in Toronto.

Week	Topic
1	Understanding electricity voltage and current, conductors and insulators electromagnetic forces
2	Introduction to using a multi-metre: Measuring voltage and current
3	Resistance and its purpose in an electronic circuit How resistors work Resistor types and how to identify and read resistors Measuring resistance using a multi-metre
4	'Capacitance and its purpose in an electronic circuit How a capacitor works Capacitor types and how to read a capacitor Measuring capacitance
5	Semiconductors and how they function The purpose of semiconductors in a circuit Identifying semiconductors
6	Inductors, and transformers The purpose of inductors and transformers in a circuit Identifying inductors and transformers
7	Soldering basics and tools Using and taking care of a soldering iron
8	Soldering connectors: Wire prepping and soldering In class practice
9	Removing components from a circuit board In class practice
10	Soldering components to a circuit board In class practice
11	Begin soldering projects
12	Continue soldering kits and test

Evaluation

Soldering Project	50%
Attendance and Participation	50%
Total	100%