Computer Coding for Novices

This course eases the novice into the elementary concepts of programming using a flowchart-based approach and with simple coding examples. The techniques are applicable to any computer system either PC or MAC and the popular language ‘Python’ is used for the coding examples.

Week 1
- Basic Components of a Computer
- Procedures
- Flowcharts

Week 2
- What is a variable?
- Computer operations associated with variables
- What is a constant?
- Why use constants in coding?
- Coding example with flowchart

Week 3
- Simple output command
- Customizing your output
- Simple Input Command
- Customizing Input
- Using Input and Output in tandem
- Coding example with flowchart

Week 4
- The equals operator
- Understanding the equals operator in coding
- Computer operations and the equals operator
- Arithmetic operators
- Precedence in arithmetic operators
- Coding example with flowchart

**Week 5**

- Summary of Concepts
- Final Coding Example: application of coding to an astronomy project