Description: A study of the fundamentals of computer use; how it works, data communications and the Internet, spreadsheets, databases, presentation and multimedia applications, program design and implementation, and fundamental computing theories.

Prerequisites: None.


1 Introduction to Computers
An overview of computers & introduction to presentation software

2 Hardware Principles
An overview of the hardware components including the central processing unit, data representation, input/output devices, memory and storage and networks. web page design & implementation and spreadsheets.

3 Software Principles & Network Design
Fundamental programming instructions, languages, object-oriented programming using an object-oriented language and operating systems

4 Networks and Social Issues
Network design, artificial intelligence, ethical issues, security and career options

Testing

EVALUATION
Tests/Projects/Homework 60-90%
Labs 10-40%

NOTE: ONCE A STUDENT HAS RECEIVED CREDIT, INCLUDING TRANSFER CREDIT, FOR A COURSE, CREDIT MAY NOT BE RECEIVED FOR ANY COURSE WITH MATERIAL THAT IS EQUIVALENT TO IT OR IS A PREREQUISITE FOR IT.

MA/jlh 7/2016