

COMP 1270 – Introductory Computer Usage 2

Calendar Description: Using advanced tools to design web pages. Students will also learn how to make effective presentations, work in other operating system environments, use file transfer tools, apply simple script programming to web page designs, and understand current issues relating to technology in society. May not be taken within the Computer Science Honours or Major program.

Recommended: COMP 1260

Outline

- 1) Introduction to Microsoft PowerPoint (1 week)
Creating a new presentation using templates, Objects and slides, Transitions and animations, Speaker's notes and handouts, Slide show basics
- 2) Advanced MS PowerPoint (1 week)
Presentation design, Headers and footers, Graphics, Custom animation
- 3) Introduction to UNIX and file transfer (1 week)
Command-line vs. GUI interface, Basic Unix commands, Secure Internet clients (SSH/SFTP), Why secure clients are needed, Remote login using SSH, File transfer using SFTP
- 4) The UNIX multi-user environment (1 week)
UNIX hierarchical directory structure, working with UNIX directories, altering the directory structure, Navigation, Protection and sharing in a multi-user environment, Permissions, chmod
- 5) Introduction to HTML (1 week)
Introduction to markup languages, Basic structure of a web document, Working with web documents, Text editor view, Web browser view, Basic block elements: headings, lists, paragraphs, Introduction to inline (character) elements, Information vs. Presentational elements, HTML character codes
- 6) Introduction to XHTML (1 week)
Separating structure and formatting, Principle of containment, Opening and closing tag pairs, Nesting, Self-closing tags, Well-formed web documents, Rules for specifying elements and attributes, Validation
- 7) Links and Tables (1 week)
Relative and absolute links, linking to a specific location in a web document, using graphics as a link, E-mail links, using tables for displaying data in rows and columns, using tables for controlling web document layout
- 8) Graphics and Colour (1 week)
Using pixels to represent images, Graphic file formats, Strengths and weaknesses of different formats, Compression, Effective use of images in web documents
- 9) Basics of colour (1 week)
Primary colours: additive and subtractive primaries, RGB specification, specifying colour in a web document
- 10) Introduction to CSS (1 week)
Writing CSS rules to specify formatting, Where rules may be located (cascaded), Inline, Embedded, Linked
- 11) Introduction to CSS2 (Position) (1 week)
The Box model of position in a web document, the normal flow of elements, creating a new box for controlling position, Relative positioning, absolute positioning, overlay (z-axis) positioning
- 12) Introduction to Server-Side processing (1 week)
Interactivity in web documents, why is it desirable? Security issues, SSI (Server-Side Include) directives, HTML Forms and form processing
- 13) Introduction to Client-Side processing (1 week)
Introduction to JavaScript, JavaScript statements, Variables, arrays and methods

Text: Jerry Lee Ford Jr.,(Cengage Learning publisher, bundled with a laminated PowerPoint2010 Sheet.