

# COMPSCI 111 / 111G

*Mastering Cyberspace:  
An introduction to practical computing*

## Revision

## Revision Lab

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### Compulsory attendance

Use PeerWise to revise the course content

Must create at least 2 questions

Must answer at least 2 questions

### Excellent revision resource

- Research indicates that use of the system correlates with improved performance in examinations

## Hardware and Software (12 Marks)

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Definitions (2 marks)

Examples of Devices (2 marks)

Binary numbers (4 marks)

Operating Systems (2 marks)

Memory (2 marks)

## Internet (16 marks)

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Design and History (2 marks)

Data communication/networks (2 marks)

Protocols (4 marks)

Communication software (4 marks)

Structure of the WWW (4 marks)

## Python (10 marks)

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**Write a program (5 marks)**

**What is the output of the program below (5 marks)**

### Concepts

- Loop (while)
- Conditional (if)
- Variables
- Boolean operators

## Spreadsheets (10 marks)

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**Write formula for the following cells**

### Functions (some of)

- MAX
- MIN
- AVERAGE
- SUM
- IF
- VLOOKUP

### Boolean operators

- AND
- OR

## PowerPoint (8 marks)

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**Edward Tufte (2 marks)**

- Criticism, Benefits, Advantages, Disadvantages

**Structure of PowerPoint slides (2 marks)**

- Templates, Master Slides, Colour Schemes

**Style of PowerPoint slides (4 marks)**

- Animation, Fonts, Colours

## XHTML and CSS (10 marks)

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**Write the XHTML code that will reproduce the page shown. You must use the style sheets given.**

## Databases (8 marks)

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Use the relationship diagram to answer some questions about the structure of the database

## LaTeX (10 marks)

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Write the LaTeX code required to reproduce the page as shown.

## AI and Graphics (8 marks)

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**Graphics formats (2 marks)**

**Rendering 3D graphics (3 marks)**

- Easy, Difficult, Techniques used, Animation

**Strong and Weak AI (3 marks)**

- Philosophy

## History and Social Issues (8 marks)

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Arrange the following events in chronological order  
(4 marks)

**Children using the Internet (4 marks)**