

31268 Web Systems

University of Technology Sydney

Topics:

1. Operating Systems
 - a. General concepts, processes, storage, Input/Output
 - b. Memory and process management
2. The Web and Human Interaction
 - a. Web page development
 - b. Web applications
3. The Internet and the Web
 - a. The Internet infrastructure
 - b. Network services
4. Computing Theory
 - a. Representation of information
 - b. Number Systems
 - c. Boolean logic
 - d. Storage and Processing of information
5. Using UNIX (based on the Linux Essentials certification)
 - a. Filesystems
 - b. Editing
 - c. Security
 - d. Piping and wildcards Introduction to scripting Data processing

WEEK ONE

- **Seminar:** Welcome & Admin
- Online videos: Welcome to Web Systems Online activity: The web and IT
- Tutorial: none this week
- Lab: none this week

Computer interfaces:

- The command line interface:
 - CLI for short
 - System which interacts between keyboard and monitor
 - Only prints text
 - Does not show other icons and windows
 - Known CLI's include:
 - Sh 1969: (predecessor of bash, csh)
 - CPM 1973: (predecessor of MS-DOS)
 - cmd.exe (windows shell)
- The graphical user interface
 - GUI for short
 - This is the system which interacts between windows, icons, menus, etc.
 - Does *not* only print text
 - Known GUI's include:
 - Apple
 - Unix
 - Microsoft

WEEK TWO

- **Seminar:** Intro to Operating Systems & the Web Online Lecture: Admin
- **Tutorial:** Icebreaker, Intro to operating systems Lab: Linuxgym 1 - filesystems
- **Notes:**
- You are required to view the online lectures **before** each weekly tutorial/lab listed in this schedule.

Operating system:

- Run programs and manage the computer
- Act as an interface between hardware and the user
- Allows services to be used to programs and users

Large systems:

- Mainframes:
 - These were used since the 60's
 - They can run linux
 - They can manage 1000's of users at the same time
- Minicomputers:
 - Unix
 - Linux