

CS1101: Lecture 1

Systems Organisation

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Course Homepage

<http://www.cs.ucc.ie/~osullb/cs1101>

•Department of Computer Science, University College Cork •

Course Objective

- Introduce students to the subject of computer systems and hardware organisation;
- The course focuses on both software and hardware aspects of computer systems;
- Students should attain a high level of competence in the use of a number of computing environments, operating systems and software tools, as well as an appreciation for computer organisation and hardware.

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Some Housekeeping

- Lecture Timetable:
 - Tuesday: 10am-11am, Boole 3;
 - Wednesday: 1pm-2pm, Boole 1;
- Web-site:
 - <http://www.cs.ucc.ie/~osullb/cs1101>
- Grading:
 - 200 marks in total;
 - End of Year Examination - 160 marks;
 - Continuous Assessment - 40 marks.
- Labs
 - Start in a few weeks;
 - All of this will be announced.

CS1101: Systems Organisation

Access to Support

- Best to make an appointment to see me.

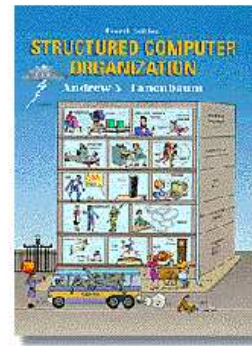
<i>Internal extension</i>	3085
<i>Direct Dial-in</i>	021 490 3085
<i>Department Office</i>	021 490 2795
<i>Email</i>	b.osullivan@cs.ucc.ie

- *Access to System's Admin* – help-desk

<http://www.cs.ucc.ie/systems/>

- *Access to General Admin* – non-urgent enquiries will be dealt with Monday to Friday, 2:30-5pm, by the department secretary (Julie Kelleher).

- Preliminary Concepts & Skills:
 - The objective of the lectures with this theme is to provide students with the knowledge and skills required to productively use a computer.
 - UNIX – SuSE Linux
- Hardware and Computer Organisation – based on Andrew Tanenbaum's approach:
 - An abstract model of computer systems;
 - Processor Design
 - Memory – primary & secondary
 - Input/Output
 - Digital Logic Design
 - Micro-architecture
 - Instruction Sets
 - Operating Systems
 - Assembly Language



- “*Structured Computer Organization*”
- Andrew S. Tanenbaum;
- Fourth Edition
- Published by Prentice Hall International, 1999;
- ISBN: 0-13-020435-8.