Computer Organisation & Program Execution 2021

Uwe R. Zimmer - The Australian National University
what is offered here?

Fundamentals, Overview & Hands-on Experience of Computer Architecture
who could be interested in this?

anybody who …

… wants to know why and how computer science immediately connects and translates to the physical world.

… would like to see immediate real-world involvement in their work.

… would like to understand what really happens if you run a high level program.
Organization & Contents

who are these people? – introductions

Ben Swift & Uwe R. Zimmer

Abigail (Abi) Thomas, Ashleigh Johannes, Ben Gray, Brent Schuetze, Calum Snowdon, Chinmay Garg, Harrison Shoebridge, Johannes (Johnny) Schmalz, Peter Baker, Ryan Stocks, Septian Razi, Tom Willingham
how will this all be done?

Lectures:
- 2x 1.5 hours lectures per week ... all the nice stuff
  Monday 13:30, Wednesday 11:30 (both on-line - which is: here)

Laboratories:
- 3 hours per week ... all the rough stuff
  time slots: on our web-site – on-campus in CSIT N.xxx or HN Lab.xx laboratories
  enrolment: https://cs.anu.edu.au/streams/ (opened on Monday)

Resources:
- Course site: http://cs.anu.edu.au/student/comp2300/ ... as well as schedules, slides, sources, links to forums, etc. pp. ... keep an eye on this page!

Assessment:
- Hurdle lab in week 4 (1%) – a pass here is a hurdle for the course
- Mid-semester exam (13%)
- 3 assignments (12% each)
- Final-exam at the end of the course (50%) – 40/100 is a hurdle for the final exam
"Text book" for the course

[Patterson17]
David A. Patterson & John L. Hennessy
*Computer Organization and Design – The Hardware/Software Interface*
ARM edition, Morgan Kaufmann 2017

Many concepts in this course are in there – *but not all!*

The [Patterson17] provides an excellent general background and a lot of in-depth studies into more specific fields.

References for specific aspects of the course are provided during the course and are found on our web-site.