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^o Learn some of the big ideas in CS & engineering:

- · 5 Classic components of a Computer
- · Data can be anything (integers, floating point, characters): a program determines what it is
- · Stored program concept: instructions just data
- · Principle of Locality, exploited via a memory hierarchy (cache)

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- · Greater performance by exploiting parallelism
- · Principle of abstraction, used to build systems as lavers
- · Compilation v. interpretation thru system layers
- · Principles/Pitfalls of Performance Measurement

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Others Skills learned in 61C

^oLearning C

- · If you know one, you should be able to learn another programming language largely on your own
- Given that you know C++ or Java, should be easy to pick up their ancestor, C

^o Assembly Language Programming

· This is a skill you will pick up, as a side effect of understanding the Big Ideas

° Hardware design

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- · We think of hardware at the abstract level, with only a little bit of physical logic to give things perspective
- CS 150, 152 teach this







Peer Instruction

[°]Read textbook, review lectures (new or old) <u>before class</u>

- Reduces examples have to do in class
- Get more from lecture (also good advice)

° Fill out 3-question Web Form on reading (deadline 9am before lecture)

Graded for effort, not correctness

Count for "effort" points





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Extra Credit: EPA!

• Effort

 Attending Dan's and TA's office hours, completing all assignments, turning in HW0, doing reading quizzes

Participation

- Attending lecture and voting using the PRS system
- Asking great questions in discussion and lecture and making it more interactive
- ^o Altruism
 - Helping others in lab or on the newsgroup

° EPA! extra credit points have the potential

to bump students up to the next grade

level! (but actual EPA! scores are internal)

Course Problems...Cheating

° What is cheating?

- <u>Studying</u> together in groups is <u>encouraged.</u>
- Turned-in work must be *completely* your own.
- Common examples of cheating: running out of time on a assignment and then pick up output, take homework from box and copy, person asks to borrow solution "just to take a look", copying an exam question, ...
 Both "giver" and "receiver" are equally culpable
- Cheating on homeworks: negative points for that assignment (e.g., if it's worth 10 pts, you get -10)
- Cheating on projects / exams; At least, negative points for that project / exam. In most cases, F in the course.
- ° <u>Every offense</u> will be referred to the Office of Student Judicial Affairs. www.eecs.berkeley.edu/Policies/acad.dis.shtml
- www.eecs.berkeley.edu/Policies/acad.dls.shtml CS 61C L01 Introduction (25) Garcia, Fall 2004 @ UCB

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Teaching Assistants

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- ° José María González [co-head TA]
- ° Andy Carle [co-head TA]
- ° Andrew Schultz
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Student Learning Center (SLC)

