
CSE 142

Welcome!
Organization & Administritivia

1 handout today (in back of the room)
Syllabus, Tentative Calendar, and Homework #0

<http://www.cs.washington.edu/142>

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Outline for Today

- Course Overview
- Administrative details
- Workload and grading
- Resources
- And a brief introduction to computer science & modeling

- This information (and more) is included in today's handouts, and is on the web – no need to transcribe; just note highlights
- Some things may be new or different this quarter – be sure you're using current information
(Be wary of the grapevine based on previous quarters....)

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Introductions

- **Instructors**
 - Doug Johnson (9:30) & Hal Perkins (11:30)
cse142-instructors@cs.washington.edu
- **TAs**
 - Many – see next slide
cse142-tas@cs.washington.edu
- **Course Administrator**
 - Pim Lustig
cse142-admin@cs.washington.edu
- **Consultants:** Savvy students we've hired to help out in the lab
cse142-staff@cs.washington.edu reaches entire staff
- **Students**

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Teaching Assistants

- | | |
|---------------------|-------------------------|
| • Ethel Evans | • Tyler Robison |
| • Mikhail Goubanov | • Vaishnavi Sannidhanam |
| • Daniel Grossman | • Scott Schremmer |
| • Lillian Kittredge | • Laura Steinkamp |
| • Theresa MacDuff | • David Tran |
| • Charlie Reis | • Pat Tressel |
| • Dave Richardson | • Adrienne Wang |

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Why Are We Here?



- **Computers are everywhere!**
 - Big ones serving databases, forecasting weather, keeping track of every click you make on the web(!)
 - Medium sized ones on desktops – games, work, web surfing
 - Tiny ones everywhere – car, kitchen, toys, phones
- **A major part of our world**
 - Impossible to imagine life without them – just like life without electricity, running water



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Two Facts

- **Computers are multi-purpose**
 - Same chip can play games, solve equations, send e-mail
 - Unlike cars, toasters, dishwashers
 - How? A different “program” – a set of precise instructions – changes what the computer does
- **All computers, large to small, have much in common**
 - Same general operation, basic concepts
 - Can think about them in general without worrying about many specific hardware details – a first example of “abstraction” – a key notion in Computer Science

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Course Goals

- **Learn general principles of computer programming**
- **Develop skills in the context of Computer Science**
 - Design
 - Implementation
 - Documentation
 - Testing
 - Debugging
- **Develop technical communication skills**
 - This is hard – and important to do well
- (And learn some Java in the process)



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Programming

- **Both easier and harder than most people make it out to be**
 - **Easier:** Many of the things good programmers do well are things that we already do all the time, but we don't think consciously about it
 - **Harder:** Programming is in large part a skill or an art
 - Requires a level of design, problem-solving, and precision that is not common in most of the rest of life
 - Very different from using applications or writing simple scripts
- **Best learned by practice, trying things out, and reasoning**
 - Don't worry – you won't break the computer by trying something new

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What to Expect

- **Homework assignments (almost weekly)**
 - Mix of written problems and short programming exercises, some using a computer
 - Done individually
- **Longer programming projects**
 - 3 of these, later in the quarter
 - 2 weeks each
 - **Work with a partner – pair programming**
Partners assigned by course staff; different partner for each project
 - **Individual written reports for each project**
May be more important than the program code itself
- **Discussions and activities in lectures and quiz sections**
- **Readings in the textbook**

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Keeping Up

- **Course is for beginners, however...**
- **Material is cumulative**
 - *Essential* to keep up
 - Ask for help the moment you need it; don't fall behind
- **No late assignments accepted; no makeup exams or quizzes – need to keep on schedule**
(Obviously, arrangements are made in circumstances truly outside your control, like serious illness or family emergency)
- **Talk to course staff and fellow students**
 - We're here to help
 - But ultimately it's up to you
"I waited for hours for the consultant" is no excuse – figure it out yourself!!

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Communication

- **We learn best when we ask questions and discuss material**
 - With each other, with course staff, with friends, both in and out of class
Ask questions; participate!
- **Main discussion channel: EPost list**
 - Link on course web page
 - Read this regularly & contribute when you can
 - Course staff will participate and contribute

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Resources

- **Course staff**
 - We're all in this together – feel free to talk to any TA or instructor and come to anyone's office hours
- **Main information source: course web pages**
 - www.cs.washington.edu/142
 - Start browsing now – be sure you can find your way around
- **cse142-announce@cs mailing list for urgent messages from CSE142 staff to everyone**
 - Registered students are included on this list automatically
- **Staff email addresses for things that are not appropriate for the discussion board – details on the course web**

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Textbook

- *An Introduction to Programming and Object-Oriented Design* by Nino & Hosch
- We've ordered a preprint of the first 13 chapters of the 2nd edition
 - Production delays – should be available Tuesday 1/6 in the University Bookstore
 - If you have a preprint from fall quarter or a copy of the 1st edition you should be able to get by, but may have to adjust specific readings, etc.
- See course calendar for readings to do before class
 - (latest version on the course web site)

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Lecture Slides

- Lecture slides will be posted to the course web, normally by the evening before each lecture
 - You should print a copy, look at it before lecture, and bring it with you to take notes
 - Lecture slides are not a substitute for attending class – there will be additional information and activities in class that do not appear on the printed slides

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Assessment

- Short quizzes in sections (regularly)
 - Graded credit/no credit
 - Should be easy if you keep up with lectures, readings
- Midterm exams in lecture
 - Monday, Feb. 2, and Monday, Feb. 23 (tentative, but likely)
- Final exam
 - Wednesday, March 17
 - Time and location probably different than on the regular exam schedule
 - You must take the final exam (as well as the midterms) when scheduled – do not plan to leave for Spring Break early
- Exams are a mix of written questions, short programming problems, etc.

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Grading

- Anticipated breakdown
 - 20% Homework assignments
 - 20% Larger programming projects
 - 15% + 15% Midterm exams
 - 20% Final exam
 - 10% Quizzes, in-class activities (some of these may be collected), class participation, and other
- Assignments and projects are weighted differently depending on difficulty, etc.
- Percentage breakdown may change somewhat depending on how the course evolves over the quarter

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Collaboration vs Academic Misconduct

- While you should discuss ideas and learn with others, it is academic misconduct to represent someone else's work as your own, even if you have modified it
 - Same standard as in an English or History class – nothing changes because computer code might be involved
- You should acknowledge places where you receive help on homework or projects
 - "Help" means discussing problems, getting suggestions, but not writing up actual solutions or code (except with partner on programming projects)
- We have sophisticated software tools to check for problems, and we follow up when we find them
 - You *don't* want to receive an invitation to meet with the Vice Provost

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Course Organization

- 3 lectures per week (MWF)
- Quiz section once per week (Thursday)
 - Regular quizzes (easy to do if you keep up)
 - Exercises, review, discussions, etc.
 - Groups of 4-5 students will work together on activities throughout the quarter
- Designated quiz sections
 - Regular
 - High-background

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More About Quiz Sections

- Regular: designed for all students – no prior experience
- High-background: designed for students with prior exposure to computing – chance to go into additional technical details, etc.
- All sections have the same assignments, take the same tests, and are graded the same
- You can request a switch to a different kind of section – we'll do the best we can to accommodate preferences
 - Fill in online form on course web site by Wednesday at 1 pm if you want this
- Possible to informally switch sections with permission of TAs involved, even after Wednesday – no registration change needed

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Computing Facilities

- CSE142 uses the UWired general labs
- Primary lab for CSE142/143 is the Introductory Programming Lab (IPL), 3rd floor Mary Gates Hall (MGH)
 - Pay a visit there today!
 - Course consulting staff available in the IPL
 - Can also use machines in Computing Commons in MGH and Odegaard (OUGL)
- Computing at home
 - Course software and tools are freely available for download
 - Instructions on the CSE 142 web
- Programming assignments are submitted and returned via the web; other assignments will be a combination of web and written

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Can't Get In?

- New slots open up as people drop
- No waiting list
- No entry codes
- Attend lectures and any old quiz section for the time being. But no guarantees – you might not get in.
- If you aren't registered by Wednesday or so – consider making a new plan

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You've Got Homework!

- Homework 0 is due Friday by 4:00 pm!
 - A dozen questions you can answer by finding your way around the course web
 - The two-part answer to one of the questions will be posted to the class discussion board and sent via email to cse142-announce@cs sometime late Thursday afternoon
 - Don't email course staff asking about it...
 - Starter sheet handed out in lecture today
- "Hand in" the assignment by emailing it to your TA
 - You'll know who this is after Thursday's sections

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