

CSE 490c (CSE 303)

Concepts and Tools for Software Development

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Goal: novice programmer ⇒ knowledgeable developer

- Understand and control
(and take responsibility for)
 - operating system
 - development environment
 - program's resources
- Know how to work in teams
- Know testing, design strategies
- Be aware of impacts on society
- Be self-reliant

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Tentative outline

- Unix, advanced cmds, scripts: 1 week
- Dev. tools, group programming: 1 week
- Testing, specifications: 1 week
- C/C++: 3 weeks
- Other dev. environments: 1 week
- Design patterns: 1 week
- Requirements, UI design: 1 week

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Homework and projects

- Roughly weekly
- Some exercises
- A group project
 - A C service
 - Scripts, development tools
 - Testing & design & documentation parts

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"Section"

- Friday will often be different
 - Discussion & debate on societal impacts of computer systems
 - Contribute your clippings
 - Group project work & meetings
 - Code reviews
 - Guest lectures
 - Contribute your knowledge!

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Textbooks

- C++ for Java Programmers
- Design Patterns
- The Pragmatic Programmer

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Survey on background

- n New major?
- n Unix?
- n Java?
- n C/C++?
- n Program size?
- n Development environments & tools?
- n Laptop?