



Craig S. Kaplan

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### Today's Topics

- ◆ Welcome
- ◆ Course Overview
- ◆ Administrative Information
- ◆ Introduction To C++

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### Me

- ◆ From Montréal, Québec, Canada
- ◆ Completed two years of Ph.D.
  - ◆ Just finished coursework, quals project
- ◆ Interested in graphics, programming languages, education
- ◆ Background in computer science, pure math
- ◆ Enjoy teaching (talking?)

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### The Staff

- ◆ Teaching Assistants:
  - ◆ Jon Nowitz (head)
  - ◆ Kenneth Ma
  - ◆ Dorian Miller
  - ◆ Justin Miller
  - ◆ Eric Youngblut
- ◆ Consultants:
  - ◆ Knievel Co
  - ◆ John Naegle
  - ◆ Kristy L. Walker
- ◆ Instructional Technologist
  - ◆ Dan Boren
- ◆ Check web for schedules, office hours, etc.

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### Course Philosophy

- ◆ Be one with **abstraction**
- ◆ Give you intuition for Computer Science
- ◆ Introduce some important concepts and techniques
- ◆ Learn by doing
- ◆ Build your "Bag of Tricks"

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### Course Goals

- ◆ A direct continuation of 142
  - ◆ Review old 142 exams to see if you're ready!
- ◆ More advanced programming
  - ◆ "Programming in the large"
- ◆ Not a C++ programming course
  - ◆ But we use C++ in the lab

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## Course Overview (I)

- ◆ Software engineering concepts
  - ◆ Abstraction, modularity, information hiding
  - ◆ Abstract data types
- ◆ Data Structures
  - ◆ Lists, stacks, queues, trees, hash tables
  - ◆ Dynamic memory

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## Course Overview (II)

- ◆ Recursion
- ◆ Algorithms and Complexity
  - ◆ Searching, Sorting
  - ◆ Performance Analysis
- ◆ Object-Oriented Programming

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## Quiz Sections

- ◆ Purposes
  - ◆ Answer questions, clarify homework
  - ◆ Quizzes, midterm
  - ◆ Enrichment of material from lecture
  - ◆ New material presentation
- ◆ Attendance is expected

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## Grading

- ◆ Approximate percentages:

Homework	35%
Midterm	25%
Final exam	30%
Quizzes	5%
Other	5%

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## Cheating...

- ◆ Is not permitted
- ◆ Will be caught
- ◆ Will be punished
  
- ◆ See web (soon) for clarification

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## Course Web

- ◆ <http://www.cs.washington.edu/education/courses/143/CurrentQtr/>
- ◆ Everything is there
- ◆ Read it now
- ◆ Look there for help
- ◆ Check back frequently!

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## Mailing Lists and Aliases

- ◆ General and platform/section related lists. Subscribe!
- ◆ Archive of mailing lists on web
- ◆ Mail aliases for me, TAs, staff
- ◆ Anonymous feedback form
- ◆ See web for details

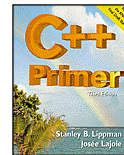
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## Textbooks

- ◆ **Required:** Headington and Riley, *Data Abstraction and Structures Using C++*, DC Heath, 1994.
- ◆ **Suggested:** Lippman, *C++ Primer*, Addison-Wesley, 1998
- ◆ See web schedule for regular readings (to be done before lecture)



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## Tools

- ◆ Full Support:
  - ◆ IPL (Sieg 323): Windows 95, and MSVC++ 5.0
  - ◆ Home platforms with this configuration
- ◆ Partial Support:
  - ◆ Borland C++
  - ◆ MSVC++ Version 4
  - ◆ Macintosh (Sieg Mac lab or others)
  - ◆ UNIX with GNU g++ compiler

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## What Does Support Mean?

- ◆ Full support means we will:
  - ◆ Help you solve system problems
  - ◆ Provide sample executables
  - ◆ Provide consulting in IPL
- ◆ Partial support means we will:
  - ◆ Accept programs written using these systems
  - ◆ Help with problems as we can
  - ◆ Not guarantee sample executables

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## Eric and Lisa

- ◆ June 26th in Waterloo, Ontario



- ◆ Guest lectures: Greg Badros (Wednesday), Michael Noth (Friday)

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