

Data Structures

CIS*2520 Summer 2006

Instruction

- **Instructor**
David McCaughan (REYN 210 x56467)
dbm@uoque1ph.ca
Office Hours: by appointment
 - *NOTE: other than after class or by appointment, I am not generally available at random times*
- **Teaching Assistant**
Lukasz Wawrzyniak
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Office Hours: *see online advising schedule*

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Instruction

- **Lectures**
TTh 11:30 - 12:50pm [MACK 233](#)
 - Lecture notes will be available on-line in html and pdf format, however not necessarily before the lecture
- **Lab**
F 1:30 - 3:20pm [THRN 1319](#)
 - alternating presentation of supplemental material and small graded lab activities

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Resources

- **Web Page**
<http://www.usrlocal.ca/~dbm/teaching/CIS2520/>
- **Discussion Forum ([use it](#))**
<https://www.cs-club.org/forum/>
 - CIS 2520(S06) forum
 - primary source of out-of-class announcements, help and discussion
- **E-mail**
- **Required Text**
 - *Data Structures, Algorithms & Software Principles in C.* Thomas A. Standish, Addison-Wesley, 1995.

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Resources

- Labs
 - dual-boot Windows, Linux
 - door code
- Linux
 - All distributions are available on-line (Debian, Ubuntu, Slackware, etc.)
 - see <http://www.linux.org> or search Google/Yahoo/etc.
- Logging in from home
 - Consult CCS for dial-up information
 - you may still be able to telnet to general, however it is recommended you use ssh

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Course Overview

- Philosophy
 - “You will learn to think in ADTs”
 - data abstraction, modularity and interfaces
 - basic algorithmics
- Expectations
 - good grasp of basic procedural programming
 - familiarity with C
- Difficulty of course
 - programming requirements are relatively light
 - it’s more about doing it right, rather than doing a lot of it
 - you’ll need some time thinking and understanding

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Evaluation

- Assignments (40%)
 - 4 x 10%
- Lab Activities (10%)
 - 5 x 2%
- Quizzes (20%)
 - 4 x 5%
- Final Exam (30%)
 - cumulative
- NOTE: must independently pass assignment and exam portions of the course to pass
 - otherwise final grade can be no higher than 44%

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Assignments

- Assignments (10% each)
 - Abstract Data Types
 - Extension and Implementation of List ADTs
 - Table ADT, Hashing and Recursion
 - Tree ADT, Binary and AVL Trees, Graphs
- Expectation of independent work
 - see course outline and assignments web page for additional details
- Regrade policy
 - in-person, detailed request presented to TA within 7 calendar days

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Assignments

- Submission
 - *Skidmarks*
 - all submission and grading handled through this system
 - follow instructions on the assignment web page
- Late assignments will not be accepted
 - receive grade of 0
- Responsibility
 - you are completely responsible for your own work
 - correct submission, backups, cheating, etc.

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Labs

- Additional source of putting concepts into practice, and opportunities to think about what we are doing
- Alternating weeks
 - week 1: presentation material
 - may be related to lectures, assignments, or lab specific topics
 - week 2: lab activity
 - made available on-line prior to the lab
 - small activity to be done in the lab
 - results either demonstrated to TA in-lab, or due via *Skidmarks* submission by midnight on Friday (these activities are brief in any case)

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So now what?

- This week:
 - overview of terminology today, continue with implementation/ software engineering/modularity concepts next week
 - lab exercise 1 is posted
 - this is to be shown to your TA in the second lab --- can start poking around at this now
 - no lab this week (first lab is next Friday)
- Web site
 - review all relevant materials posted (assignment/exam policies, lecture schedule, lab schedule, etc.)
- And finally, some words of wisdom...

You must regard everything I say with suspicion as I might be trying to bullehit you, or I may just be bullehitting you inadvertently.

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