**CMPUT 115 – Welcome!**

Department of Computing Science
University of Alberta

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**Objectives of this lecture**

- Welcome you to the course
- Introduce you to your instructor & other course staff
- Outline the course prerequisites
- Overview the course structure, policies, content & grading scheme
- Give you a realistic view of what this course involves (in terms of student time and effort)

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**Instructor Information**

- **Name:** Prof. Li-Yan Yuan
- **Office:** Athabasca Hall, Room 326
- **Office hours:**
  - Monday and Wednesday, 10:00 to 11:30
  - & other times by appointment – please email me in advance
- **Phone:** 492-7171
- **Email:** yuan@cs.ualberta.ca

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**Course Staff**

- **Course coordinator** (manages the entire course)
  - Casey Jones, ATH 406, casey@cs.ualberta.ca
- **Lab coordinator** (lab admin. issues, TA coordination etc.)
  - Roman Fedoriv, ATH 220, roman@cs.ualberta.ca
- **Lab instructor** (lab content & teaching issues)
  - Stef Nychka, ATH 204, stef@cs.ualberta.ca

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**Prerequisites**

- Prerequisites: CMPUT 114 or 102.
- Draws heavily on all material in CMPUT 114:
  - Java
  - Object-oriented programming

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**Course Structure & Main Topics**

- 3 lecture hours + 3 lab hours per week
- Java & OO constructs: exceptions, iterators, inheritance
- Data structures: containers, lists, stacks, queues, trees, hash tables
- Sorting and searching algorithms
- Complexity analysis (time and space)
Course Web Site

- Course homepage: http://www-csfl.cs.ualberta.ca/~c115/
- Everything you need for the course is online:
  - Lab & lecture schedules (including exam dates)
  - Past exam papers and (some) solutions
  - Lecture notes
  - Lab exercises & assignments
  - And much, much more!
- Please get familiar with it as soon as you can.

Computing Final Grades

- Problems from problem sets: 3%
- Weekly exercises: 7%
- Project: 10%
- Lab Examination: 10%
- Term examination #1: 15%
- Term examination #2: 20%
- Final examination: 35%

- Your final grade will depend on the entire profile of the grades in your lecture section and a particular composite score does not guarantee a particular final grade. (i.e. 70% doesn’t necessarily mean a B, 80% doesn’t necessarily mean an A etc.)

Lectures Notes

- PDF versions of the lecture notes are available on the course website. The PowerPoint versions are only available to instructors, so they are password protected.
- You only have a free printing quota of 50 pages – don’t waste these, you’ll need them to print out the Prelabs.
- Bring a copy of the lecture notes to class. It would be very helpful if you had read them in advance.

Recommended Text Books

- No required text – choose one you like. But these are good ones...
  - Goodrich & Tamassia: latest edition, good text, useful for 2nd year Algorithms course.
  - Duane Bailey (Java Structures): 3rd edition, only available used, not a great text, the basis for much of the code in this course.
- See course website for more details.

Labs

- Scheduled labs start week beginning Monday, January 17th 2005 – please attend the lab section in which you are officially registered.
- THIS WEEK:
  - read Exercise #1 and do its prelab
  - use your CMPT 115 computer ID (see News page of website)
- Attendance in labs is compulsory.
- You will be required to demo each program.
- See web site for grading details.

Using Eclipse 2.1.3 and JDK 1.3.1_11 (Java):

- Eclipse 2.1.3 can be downloaded for free from www.eclipse.org
- Java can be downloaded for free from java.sun.com
- UofA staff do not provide support for home computers
- If you work at home, you must make sure it'll also work in our labs (TA won’t fix your code to make it work)
- Eclipse tutorials can be found in the “Lab References and Resources” section of the website.
Missed Exams
- All missed work will automatically be given a zero unless an EA is granted.
- If you feel you deserve an EA:
  - Midterms: contact your instructor within 2 working days
  - Lab exam: no EAs given
  - Final exam: apply to your own Faculty for deferred exam
- EAs will not be granted for minor medical issues, vacations, work commitments or any other reason which does not prevent you from completing a piece of work or exam
- Deferred Final Exam:
  - Must apply to the Dean’s office within 2 days of the missed final
  - Deferred exam: Thursday May 5th 2005, 9:00 AM, Athabasca Hall Room 332

Missed Practical Work
- Missed lab exercise:
  - 1st missed lab: talk to your TA, TA will give 1 “free” EA
  - 2nd and subsequent EAs: must attend interview with course coordinator; must send email within 2 days of missed deadline
- Missed project or Challenge Problem (from a problem set):
  - EAs given only in extraordinary circumstances
    - must send email to course coordinator within 2 days of deadline – will be required to attend interview
- See web site for more details

Exams
- UofA OneCard required prior to entering any 115 exam;
- If you’re not on the class list, you don’t get in
- Midterm and lab exam dates are listed in the “Weekly schedule”
- No supplementals, or alternative times/dates
- Weight of missed lab exams will not be transferred – no alternative but to write the lab exam
- All Exams: closed book, no aids (notes, calculators etc.)

Check your marks each week
- Check the marks entered for you on the course web page each week.
- Any problems related to marks must be reported within one week of the mark for that work being posted.
- This deadline holds for midterms, lab exams, exercises, projects, etc.

Plagiarism
- Collaboration is not allowed in any exercises, challenge problems, projects, tests or exams.
- In the past, plagiarism has been a major problem in courses like CMPUT 114 and 115.
- We will use software tools to check all assignment submissions for plagiarism:
  - Not fooled by changing variable names etc. – compares underlying structure of code
  - Compares across lab sections & from all previous terms
- Instructors then investigate all suspicious cases reported by the software tools

Example of “Suspicious Cases”
Some Facts
摺 Detection of plagiarism is easy and fast.
☑ Everybody’s assignment is compared to everybody else’s, even over different terms
☑ All cases of plagiarism will be reported to the Dean’s office.
☑ You are equally guilty whether you took someone else’s work or you gave your work to someone else.

Plagiarism – final word
☑ Honest students need not be concerned:
 All suspicious cases are carefully analyzed.
☑ Dishonest students should be concerned:
 Detection is easy and penalties are severe.
☑ All students: read the university’s Code of Student Behaviour available through the course web pages.

Final notes & advice (#1)
☑ Dept. of Computing Science does not allow students to audit any of its courses
☑ Lectures may discuss some points not included in printed slides – may be included in exams. Don’t miss class!

Final notes & advice (#2)
☑ Practical component of CMPUT 115 can be time-consuming and challenging – be prepared!
☑ Use a variety of learning resources to prepare for your labs, not just lecture material; sometimes the lab will cover material not (yet) covered in class
☑ DO NOT FALL BEHIND. e.g. if you have to miss a lab make sure that you complete it before starting the next lab (material builds in an incremental manner)

Best advice of all...
☑ Enjoy the term – it’s challenging but interesting and rewarding!