COMP-202
Unit 0: Course Details

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COMP-202
Intro to Computing I
WELCOME!
Focus of the Course

• Introduction to computer programming
  – Basics of problem solving
  – Essentials of program design and implementation

• Coursework will be done in a programming language called Java
  – Concepts taught in the course apply to other programming languages as well

• Aimed at students with little or no background in programming and/or knowledge of computer science
Prerequisites

- Prerequisite: A CEGEP-level math course or equivalent
- For those who graduated from high school outside Quebec and thus never attended CEGEP: any upper-level math course
- In any case, the ability to think logically and rigorously is more important than calculus, algebra or trigonometry
Non-Focus of the Course

• This course is **not** about:
  – How to use, set-up, or configure a computer
  – How to surf the Web or send e-mail
  – How to chat with friends using the Internet
  – How / where to download music and movies from the Internet
  – How to write essays with a word processor
  – How to make presentations with presentation software
  – How to design Web pages
  – How to repair your computer if it breaks down

• Instruction will be provided on how to use the software packages necessary to complete coursework
Course Outline

• Week 1: Introduction
• Weeks 2 - 4: Basics of programming
  – Week 2: Variables, simple calculations, basic input and output
  – Week 3: Branching structures
  – Week 4: Loops
• Weeks 5 - 7: Object-oriented programming
  – Week 5: Using objects
  – Week 6 - 7: Defining your own classes of objects
• Weeks 8 - 9: Arrays
• Weeks 10 - 13: Advanced topics
Placement Quiz

• If you think you are overqualified for COMP-202, take the placement quiz
• If your total for the 4 questions is 9 or above, attempt the programming problem and submit your solution (along with the rest of the questionnaire) to your instructor
• Your instructor will tell you whether you should be in COMP-202 or COMP-250 (the next course)
Textbook

- Additional information (authors, publishers, year of publication, ISBN) is on the course outline
- Available from McGill bookstore
- The 5th edition of this textbook is perfectly adequate
  - You might be able to buy a used copy from a student who took the course in previous years
- Other reference: Sun Microsystems' Java Tutorial
  - [http://java.sun.com/docs/books/tutorial/](http://java.sun.com/docs/books/tutorial/)
Course Structure

• Lectures
  – 3 hours per week, every week, "mandatory"
  – All material taught in lectures is examinable unless otherwise stated

• Tutorials
  – 2 hours, take place most weeks, optional
  – Different material covered each week
  – Several sessions of each, offered at different times; go at most convenient time for you
  – Tutorials start next week; details to be announced

• TA office hours
  – Approximately 1 TA office hour per week per 20 students
  – TA office hours start next week; details to be announced
Tutorials

• Purpose:
  – To enable you to familiarize yourself with software needed to complete coursework
  – To reinforce material taught in lectures through examples and hands-on exercises

• Given by TAs
• Take place in a computer lab
• Smaller groups, therefore more individualized attention
Tutorial Topics

• Tutorial 1:
  – SOCS accounts, login / logout
  – GNU/Linux desktop environment
  – myCourses
  – RText / JDK

• Tutorials 2 - 4: Basics of programming
• Tutorials 6 - 8: Advanced topics
• Tutorials 5 and 9: Preparation for the midterm and final examination
Grading Scheme

• 5 assignments: 30%
  – Assignments 1 through 4 have the same weight (5%)
  – Assignments 5 is worth more (10%)
  – All assignments count toward your final grade
  – One of the best ways to learn the material
  – Lateness penalty (5% per day or fraction of day, up to two days)
  – MUST be done INDIVIDUALLY

• 1 midterm examination: 20%
  – To be held outside lecture hours; closed-book, written

• 1 final examination: 50%
  – Held during final exam session; closed-book, written
Plagiarism: Policy

- Assignments MUST be done INDIVIDUALLY
  - Do NOT work in groups
  - Do NOT copy work someone else did
  - Do NOT allow anyone to copy your work

- Assignments MUST be ENTIRELY YOUR OWN WORK
  - Do NOT submit code / programs you did not write yourself

- Countermeasures
  - Random verifications by TAs during grading
  - Use of software similarity detection tools to compare assignment submissions
  - Students might be asked to explain their code to instructors at any time
SOCS Computer Labs

• If you are officially registered in the course, you can create an account to use the computers on the 3rd floor of Trottier building

• Computer availability:
  – Computers in open areas: physically accessible 24 hours a day, 7 days a week
  – Computers in side rooms: physically accessible on weekdays 10:00 - 20:00, weekends 12:00 - 20:00

• Consultant on duty: weekdays 10:00 - 20:00, weekends 12:00 - 20:00

• Computers run GNU/Linux (Unix-like OS), not MS Windows
  – Unix tutorials are offered by SOCS Systems staff
Trottier Building

• Building opening hours
  – Monday - Thursday, 7:00 - 21:00
  – Friday, 7:00 - 18:00

• Outside opening hours, use your McGill ID card to unlock the door
  – If your McGill ID card cannot unlock the door, and you are officially registered in the course, send e-mail to help@cs.mcgill.ca and ask to be added on the building access list
Required Software

• You are encouraged to use your personal computer or laptop to complete course work

• Software used in this course
  – Required: Java Development Kit (JDK)
  – Optional: RText, Eclipse (later in the course)

• See course outline for details on how to obtain the above software packages

• All programs you submit for assignments must compile and run using JDK 6.0 or later
  – JDK is backward compatible; programs that compile and run under previous versions also compile and run under JDK 6.0
Course Communication

• Course home page:
  – Select appropriate semester
    – Instructor coordinates, course outline, TA contact information and office hours schedule, tutorial schedule, lecture notes, assignment specifications, and other course material

• myCourses (WebCT Vista):
  – http://www.mcgill.ca/mycourses
  – Discussions, announcements, assignment submission and grading, marks
  – You are responsible for making sure that your marks are correct, and reporting errors to your instructor