Computer Science 2211a 2020

Software Tools and System Programming

September 8, 2020

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Software Tools and System Programming

Course Instructors

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- Drop in hours: Thursday 10:30-11:30

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- Drop in hours: Thursday 10:30-11:30

How to Keep Informed

- http://owl.uwo.ca/portal
 - Announcements
 - Lecture notes and videos
 - Labs
 - Assignments
 - Class information
 - Supplemental information
- Your email account at UWO
 - Important notices
 - Forward your email if you don't check it regularly

Access to GAUL

GAUL (Graphics And Undergraduate Laboratory) Computer Science Undergraduate Network

- Connect to GAUL
 - ssh YourUserName@compute.gaul.csd.uwo.ca
 - Older Windows: need PuTTY
- Transfer files
 - sftp YourUserName@compute.gaul.csd.uwo.ca
 - Older Windows: need WinSCP or FileZilla
- YourUserName (user name) and password
 - Same as your UWO email account

Text and References

- S. Das, Your UNIX/Linux: The Ultimate Guide
 - An introduction to Unix
 - A manual to use Unix
- K. N. King, C Programming: A Modern Approach
 - C programming
 - Complete coverage of C89 and C99
- Both books are required

Two Keyword for the Course

Unix

- An Operating System (OS)
- e.g. Solaris, HP-UX, AIX, Irix, Unicos, Dynix, Free/Open/Net BSD, Linux (Ubuntu, Mandriva, Red Hat, CentOS, Fedora), macOS, and Android
- Some commonalities with DOS, Windows
- Many unique features
- Initially popular in universities and corporations
- Widely used in modern servers, workstations, and mobile devices

C

- A programming language
- Relationship to Unix, C++, and Java

Unix vs. Windows

- Similar things
 - ► Files vs. files
 - Processes vs. processes
 - Shells vs. command prompt windows
 - Utilities vs. software applications
- Differences
 - Multiple users
 - More stable
 - More features of shells
 - ★ Shell programming (shell scripts)
 - ★ Redirection and pipes
 - ★ Regular expression

Java vs. C

Java

- A programming language
- Object oriented
- Garbage collector
- No pointers
- Better programming style, security

C

- A programming language
- Function oriented
- Manage your own memory
- Pointers
- More efficient and powerful

Student Evaluation

• 10 (out of 12) Labs: 10%

• 5 Assignments: 30%

• 2 Quizzes: 20%

• Final exam: 35%

• Peer review: 5%

A necessary condition to obtain a passing mark

- Must get 49% marks for the weighted final exam and quiz average
- Must get 49% marks for the weighted assignment average

Labs

- Details are scheduled each week
 - Solving lab problems
 - Interact with TA
 - Practice/tutorial on Unix and C
- Submission via OWL
 - ▶ Due midnight (11:55pm) of the due date
 - ▶ Include "CS2211a Lab Submission Form" with your submission
 - A copy of you lab in your GAUL account will not be accepted as submission
 - Check "CS2211a Lab Submission Guidelines"
 - Will let you know the details
 - ► Late submission will not be considered ► more info

Assignments

- Assignments involve
 - Concept questions (non programming)
 - Unix command questions
 - C programming
 - Shell programming
- Programming assignments must be able to run on GAUL: compute.gaul.csd.uwo.ca
 - You may develop assignments on your home computer
 - Before submission, must be able to run on GAUL
 - It takes time to get it work at a different environment
 - TA will only mark your assignment on GAUL

Assignments

- All Assignments will be posted on OWL
 - Please monitor these pages closely for possible updates and corrections
- Assignments are to be done individually
 - Never let others look at your assignments
 - Do not ask to look at others' assignments
 - We may use automated tools to screen for cheating

Assignment Tentative Schedule

Assignment	Weight	Due date (11:55pm)
1	5%	September 22, 2020
2	6%	October 6, 2020
3	6%	October 20, 2020
4 6% Nov		November 6, 2020
5	7%	November 29, 2020

Assignment Submission

- Assignments are submitted via OWL
- Due midnight (11:55pm) of the due date
- Include "CS2211a Assignment Submission Form" with your submission
- A copy of your assignment in your GAUL account will not be accepted as submission
- Check "CS2211a Assignment Submission Guidelines"
- Will let you know the details

Late Assignment Policy

ullet The late penalty percentage: $round(\ (2^{(late_days+2)}-2)/5\) imes 5$

	1 day	2 days	3 days	4 days
	5%	15%	30%	60%

- After four days, the penalty will be 100%
- Unless your have either a self-reported absence or a recommendation from an academic advisor requirements.

Online Quizzes

Quizzes:

Quiz	Weight	Date & Time
1	10%	Oct. 22, @11:00am
2	10%	Nov. 19, @11:00am

- Open book but must be done individually
- Missed quizzes will result in a mark of 0
- If you have a self-reported absence or a recommendation from an academic advisor, you are allowed to take the makeup quizzes

• Makeup Quizzes:

Quiz	Weight	Date & Time
1	10%	Oct. 29, @11:00am
2	10%	Nov. 26, @11:00am

Academic Consideration and Self-Reported Absence

- If you have either a self-reported absence or a recommendation from an academic advisor.
- We acknowledge the university policy with the following arrangement
- For labs, you must provide detailed information in the "CS2211a Lab Submission Form" when submitting your lab details
- For assignments, you must provide detailed information in the "CS2211a Assignment Submission Form" when submitting your assignment for late penalty reduction reduction
- You do not need to contact the instructor
- We will not reply any such inquiry.

Academic Consideration and Self-Reported Absence for Labs

- Academic consideration:
 - ▶ In CS2211a Lab Submission Form,
 - ★ State clearly the days recommended by the academic advisor
 - ★ Include a text copy of the email from the advisor
 - ★ If the number of days recommended is more then four, please send an email to cs2211a<at>uwo.ca after your lab submission to inform our TAs about your late submission.
- Self-reported absence:
 - We only use 10 out of 12 lab marks
 - Should not use self-reported absence for labs
- Do not need to contact the instructor
- Will not reply inquiry

Academic Consideration and Self-Reported Absence for Assignment

- Academic consideration:
 - ▶ In CS2211a Assignment Submission Form,
 - ★ State clearly the days recommended by the academic advisor
 - ★ Include a text copy of the email from the advisor
 - ★ If the number of days recommended is more then four, please send an email to cs2211a < at>uwo.ca after your assignment submission to inform our TAs about your late submission.
- Self-reported absence:
 - In CS2211a Assignment Submission Form,
 - ★ State clearly the two days requested
 - ★ Include a text copy of the email from UWO
- Do not need to contact the instructor
- Will not reply inquiry

Academic Consideration and Self-Reported Absence for Quizzes

- If you have a self-reported absence or a recommendation from a academic advisor for both the missed quiz and the missed makeup quiz
- The weight of the missed quiz will be placed on the final exam
- Contact the instructor with all the documentations immediately after the final exam

Scholastic Offences and Ethical Conduct

- You should read the computer science department definition and penalties of Scholastic Offences at:

 scholastic offences
- Students are expected to adhere to the Rules of Ethical Conduct to use the computing facilities of the computer science department: ethical conduct