THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-2941-050
Course Name: Unix
Course Webpage: https://nexus.uwinnipeg.ca/d2l/home/64609

Instructor Information

Instructor: Wesley Takeo-Konrad
E-mail: w.takeo-konrad@uwinnipeg.ca
Office Hours: Thursdays – 5:00pm – 6:00pm, room 3C07 (or by appointment)
NOTE: from Oct. 11, 2024, to November 5, 2024 office hours will be by appointment only via zoom
Class meeting time Thursdays 6:00pm – 9:00pm

Important Dates

1.	First Class	September 5, 2024
2.	Last day for course add/drop without penalty	September 16, 2024
3.	Reading week (no classes)	October 13-19, 2024
4.	Midterm Test (1L07)	October 24, 2024
5.	Remote Lecture via zoom (presented in classroom)	October 31, 2024
6.	Last day for withdraw without academic penalty*	November 13, 2024
7.	Final Regular Lecture	November 28, 2024
8.	Evaluation Period (Final Exam, date/time/location TBD)	December 7-20, 2024
	University Closures: Truth and Reconciliation Day	September 30, 2024
	Thanksgiving Day	October 14, 2024
	Remembrance Day	November 11, 2024
9.	Make-up Lecture (if required)	December 5, 2024

*A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date.

Course Objectives / Learning Outcomes

This course will provide students with a comprehensive introduction to Unix operating system, one of the most widely used operating systems that runs on virtually all types of computers.

The course will first introduce students to such topics as shells, filters and pipelines, the Unix file system, processes and job control, and Internet communications. Then the attention will be paid to the Unix shell programming, which provides valuable tools for developing powerful applications while writing a minimal amount of code.

Computer System and Administrator

The official computer for this course is **mars.acs.uwinnipeg.ca**
The system administrators: "Acstechnician" acstechnician@uwinnipeg.ca

Attendance

Attendance will be taken at the beginning of class.

Evaluation Criteria

1. Assignments (20%)
   - All assignments must be completed **individually**.
   - Number of Assignments: 4 (4%, 4%, 6%, and 6% for Assignment 1, 2, 3, and 4)
   - All commands and scripts must run on mars.uwinnipeg.ca
   - Every assignment must be handed in by email on mars.acs.uwinnipeg.ca.
   - No assignment will be accepted after the due time.

2. Midterm Test (30%)
    - During the regular class time (see Important Dates)

3. Final Exam (50%)
   - Cumulative

Test / Exam Requirements

- Photo ID is required for the final exam.
- The use of computers, calculators, phones, or other electronic devices is not permitted during exams.
- Midterm and final exams are closed-book.

Students should contact the instructor as soon as possible if extenuating circumstances require missing a lab, assignment, test or examination. A medical certificate from a practicing physician may be required before any adjustments are considered.

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 204-786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential.

https://www.uwinnipeg.ca/accessibility-services.

Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the 2024-25 Undergraduate Academic Calendar online at

http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf

Final Letter Grade Assignment

Historically, numerical percentages have been converted to letter grades using the following scale. However, instructors can deviate from these values based on pedagogical nuances of a particular class, and final grades are subject to approval by the Department Review Committee.

A+	90 – 100%	B+	75 – 79%	C	60 – 64%
A	85 – 90%	B	70 – 74%	D	50 – 59%
A-	80 – 84%	C+	65 – 69%	F	Below 50%

Required Textbook / Reading List

- Instructor's lecture notes
  - Notes for each lecture will be made available after each lecture is concluded

Prerequisite Information

- A grade of at least C in ACS-1805(3) or ACS-1903(3).

Regulations, Policies, and Academic Integrity

Students are encouraged to familiarize themselves with the Academic Regulations and Policies found in the University Academic Calendar at:
https://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf
Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals) and 10 (Grade Appeals).

Avoiding Academic Misconduct: Academic dishonesty is a very serious offense and will be dealt in accordance with the University's policies.

Detailed information can be found at the following:
- Academic Misconduct Policy and Procedures:
https://www.uwinnipeg.ca/policies/docs/policies/academic-misconduct-policy.pdf
and
https://www.uwinnipeg.ca/policies/docs/procedures/academic-misconduct-procedures.pdf
- About Academic Integrity and Misconduct, Resources and FAQs:
https://library.uwinnipeg.ca/use-the-library/help-with-research/academic-integrity.html

Uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves "aiding and abetting" plagiarism. Students who do this can be charged with Academic Misconduct.

Academic Integrity and AI Text-generating Tools: Students must follow principles of academic integrity (e.g., honesty, respect, fairness, and responsibility) in their use of material obtained through AI text-generating tools (e.g., ChatGPT, Bing, Notion AI). Use of AI Tools is prohibited in this course: students may face an allegation of academic misconduct if using them to do assignments.

Non-academic misconduct: Students are expected to conduct themselves in a respectful manner on campus and in the learning environment irrespective of platform being used. Behaviour, communication, or acts that are inconsistent with a number of UW policies could be considered "non-academic" misconduct. More detailed information can be found here:
- Respectful Working and Learning Environment Policy:
https://www.uwinnipeg.ca/respect/respect-policy.html,
- Acceptable Use of Information Technology Policy:
https://www.uwinnipeg.ca/policies/docs/policies/acceptable-use-of-information-technology-policy.pdf
- Non-Academic Misconduct Policy and Procedures:
https://www.uwinnipeg.ca/policies/docs/policies/student-non-academic-misconduct-policy.pdf and https://www.uwinnipeg.ca/policies/docs/procedures/student-non-academic-misconduct-procedures.pdf.

Copyright and Intellectual Property: Course materials are the property of the instructor who developed them. Examples of such materials are course outlines, assignment descriptions,

lecture notes, test questions, and presentation slides—irrespective of format. Students who upload these materials to filesharing sites, or in any other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also seek prior permission of the instructor/presenter before, for example, photographing, recording, or taking screenshots of slides, presentations, lectures, and notes on the board. Students found to be in violation of an instructor's intellectual property rights could face serious consequences pursuant to the Academic Misconduct or Non-Academic Misconduct Policy; such consequences could possibly involve legal sanction under the Copyright Policy: https://copyright.uwinnipeg.ca/basics/copyright-policy.html

Privacy
Students have rights in relation of the collecting of personal data the University of Winnipeg
- Student Privacy: https://www.uwinnipeg.ca/privacy/admissions-privacy-notice.html
- Zoom Privacy: https://www.uwinnipeg.ca/privacy/zoom-privacy-notice.html
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Class Cancellation, Correspondence with Students and Withdrawing from Course
When it is necessary to cancel a class due to exceptional circumstances, the course instructor will make every effort to inform students via uwinnipeg email and Nexus.

Students are reminded that they have a responsibility to regularly check their uwinnipeg e-mail addresses to ensure timely receipt of correspondence from the University and/or the course instructor.

Please let the course instructor know if you plan on withdrawing from the course. Note that withdrawing before the VW date does not necessarily result in a fee refund.

Topics to be covered (tentative)

Introduction to Unix
The Online Unix Manual
Command Syntax
The Shell
Using the C-Shell
Communicating with Other People
Networks and Addresses
Redirection and Pipes
Filters
Displaying Files
The Unix File System
Working with Directories
Working with Files
Processes and Job Control

Shell Programming

All topics listed may not be covered and may be offered in a slightly different time order.

A permitted or necessary change in mode of delivery may require adjustments to important aspects of course outlines, like class schedule and the number, nature, and weighting of assignments and/or exams.