



THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-2941-001

Course Name: Unix

Instructor Information

Instructor: Dr. Simon Liao

Office: 3D31

Class Meeting Time: 11:30-12:45 Tuesdays & Thursdays

Class Room: 3D04

Office Hours: 14:00-15:00 Tuesdays & Thursdays;

Phone: 786-9416

Teaching Web Page: <http://ion.uwinnipeg.ca/~sliao/Courses/Unix001.html>

E-mail: s.liao@uwinnipeg.ca

Important Dates

1. Midterm Test: 11:30-12:45, Room 3D04, Thursday, February 16, 2017.
2. February 19 - 25: Mid-term reading week. No classes.
3. Final Withdrawal Date without academic penalty: Wednesday, March 1, 2017. (A minimum of 20% of the work on which the final grade is based will be evaluated and available to all students before the voluntary withdrawal date.)
4. Final Exam: 9:00 am – 11:00 am, Room: TBA, Monday, April 18, 2017.

Additional Course Related Information

1. When it is necessary to cancel a class due to exceptional circumstances, instructors will make every effort to inform you via uwinnipeg email, as well as the departmental assistant and Chair/Dean so that class cancellation forms can be posted outside classrooms.
2. Your uwinnipeg email address will normally be used for course related correspondence.
3. Please note that withdrawing before the VW date does not result in a fee refund.
4. Class make-up days are scheduled at the end of term for courses that conflict with holidays.

Course Objectives/Learning Outcomes

This course will provide students 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 administrators

The official computer for this course is **pearl.uwinnipeg.ca** (running Ubuntu 14.04.01)

The system administrator: Mr. Daniel Sheppard (da.sheppard@uwinnipeg.ca).

Evaluation Criteria

1. Assignments (20%)
 - Number of Assignments: 4 (4%, 4%, 6%, and 6% for Assignment 1, 2, 3, and 4)
 - All commands and scripts must run on pearl.uwinnipeg.ca
 - Every assignment must be handed in by email.
 - No assignment will be accepted after the due date.
2. Midterm Test (30%)
3. Final Exam (50%)

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

Services for Students

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 786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a

student's disability or medical condition remains confidential.

<http://www.uwinnipeg.ca/accessibility>.

Students facing a charge of academic or non-academic misconduct may choose to contact the University of Winnipeg Students' Association (UWSA) where a student advocate will be available to answer any questions about the process, help with building a case, and ensuring students have access to support. For more information or to schedule an appointment, visit our website at www.theuwsa.ca/academic-advocacy or call 204-786-9780.

We ask that you please be respectful of the needs of classmates and instructors/professors by avoiding the use of unnecessary scented products while attending lectures. Exposure to scented products can trigger serious health reactions in persons with asthma, allergies, migraines or chemical sensitivities. Please consider using unscented necessary products and avoiding unnecessary products that are scented (e.g. perfume).

Text Book

- Instructor's lecture notes

Prerequisite and restriction Information* (This information can be found in the UW General calendar)

Prerequisites: A grade of at least C in ACS-1904/3 or ACS-1905/3 or the former 92/91.1902/3.

Misuse of Computer Facilities, Plagiarism, and Cheating

Academic dishonesty is a very serious offense and will be dealt in accordance with the University's discipline bylaw. Be sure that you have read and understood **Regulations & Policies #8**, starting on page 27, in the 2016-2017 UW Academic Calendar available at: <http://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf>

Topics to be Covered (tentative)

Week 1

Introduction to Unix

Week 2

The Online Unix Manual

Command Syntax

The Shell

Using the C-Shell

Week 3

Communicating with Other People

Networks and Addresses

Redirection and Pipes

Week 4
Filters

Week 5
Displaying Files
The Unix File System

Week 6
Working with Directories
Working with Files

Week 7
Midterm Test

Week 8 – 13
Processes and Job Control
Shell Programming