

## CIS 18A Introduction to Unix/Linux

<b>Instructor</b>	Victor Yu
<b>Meeting Hours</b>	Tuesday and Thursday: 09:30 am - 11:20 am (Lecture 09:30-10:30 am, Lab Hours 10:40-11:20 am)
<b>Office Hours</b>	Tuesday and Thursday: 8:00 pm – 9:00 pm (online)
<b>Location</b>	ATC 204
<b>Email</b>	<a href="mailto:yulinyun@fhda.edu">yulinyun@fhda.edu</a>
<b>Course Website</b>	<a href="http://elearning.ebookriter.com">http://elearning.ebookriter.com</a> (Enrollment key: Open2All)

### COURSE DESCRIPTION

This course introduces the features of the UNIX/LINUX operation system. Prior knowledge of an operating system is not assumed but is helpful. After completing the course, the student will be able to:

- Edit text using the vim editor.
- Maintain file and directory system.
- Establish security and file permission.
- Utilize the shells.
- Perform basic file maintenance and use information utilities.
- Run shell commands.
- Implement quoting rules
- Communicate with email and communication utilities.
- Apply filters.
- Use networking utilities.
- Implement basic regular expression.

### REQUIRED MATERIALS

*A Practical Guide to Linux : Commands, Editors, and Shell Programming*, By Mark G. Sobell. Prentice Hall, 3<sup>rd</sup> Edition, 2013. ISBN 978-0-13-308504-4

Available on [Amazon](#)

### COURSE REQUIREMENTS

**Attendance** Your attendance is expected in all lectures, because some of the materials presented in class may not be in the textbook. If you miss any class, you are still responsible for making sure to understand the topics discussed and completing all work assigned in this class in a timely fashion. *No personal review or lecture will be given.*

You are expected to do the assigned readings before each session and to come prepared for the discussion.

Lab attendance, however, is not mandatory. If you have a computer at home that is running Linux or have access to Voyager server, you may choose to work on your labs from there.

**Work Required** Nominal hours per week:  
 4.5 units X 3 hours per week = 13.5 hours per week, consisting of:

- 3 hours per week class lecture and in class hands-on exercises
- 2 hours per week class lab work
- 8.5 hours per week homework exercises, readings, review, and additional lab work

Regular work, being ready for each class, is needed to be successful in this class.

**Participation & Assignments** Assignments are important component of the course. You will not learn by attending lecture in lieu of completing assignments. Assignments consist of:

- Required readings
- Hands-on labs

\*Occasionally, there will be in-class exercises that are intended to prepare your system or reinforce your understanding of the class content. Exercises need NOT be turned in, and will NOT be graded. However, it MAY be covered by the exams.

**Scholarly conduct** Discussion and exchange of ideas on assignments are strongly encouraged. However, each person is expected to complete his/her own computer work. Copying or cheating during an exam will result in a zero being assigned to the grade for both parties.

**Exams** There will be 2 midterms and 1 final exam.

- Make up for the midterms rarely allowed, unless for emergency reasons. Prior approval must be obtained at least one week before the scheduled exam.
- The final exam must be taken during the scheduled time, there is no early or late exam taking.

Both exams are close-book and timed.

## GRADING

Lab assignments

- 10 assignments, each of which is worth 10 points, and will be posted on the course website
- Always due at 9:20am on due date
- 5% penalty for each day past due. 5 or more over due will NOT be accepted for credit.

Grading is based on the percentage of the total points obtained:

Participation and attendance:	5%
Labs:	40%
Midterm I:	15%
Midterm II:	15%
Final:	25%

Letter grade:

A = 90-100%  
 A- = 86-89%  
 B+ = 80-85%  
 B = 76-79%  
 B- = 70-75%  
 C+ = 66-69%  
 C = 60-65%  
 F = 0-59%

## TENTATIVE SCHEDULE

<b>Week</b>	<b>Topics</b>	<b>Chapter Readings</b>	<b>Required work, Assignments, Exercises, Exams, etc.</b>
<b>1</b>	Introduction to Unix	Chapter 1	Account setup
<b>2</b>	Getting Started, vim Editor	Chapter 2, 6 (Part 1)	Lab 1 due, Interactive vim tutorial
<b>3</b>	Utilities	Chapter 3	Lab 2 due
<b>4</b>	Review for Midterm 1	Chapter 1-3, 6 (Part 1)	Lab 3 due, Midterm I
<b>5</b>	File System, Permissions	Chapter 4	Lab 4 due
<b>6</b>	The Shell	Chapter 5	Lab 5 due
<b>7</b>	Redirections	Supplement	Lab 6 due
<b>8</b>	Review	Chapter 4-5, Appendix A	Midterm II
<b>9</b>	Regular Expressions	Appendix A	Lab 7 due
<b>10</b>	More on vim bash	Chapter 6 (Part 2)	Lab 8 due
<b>11</b>	Linux Commands (continued)	Command References	Lab 9 due
<b>12</b>	Review for final	Chapter 6 and 8, Command References	Final Exam