

Introduction To UNIX

Course Syllabus

Description	An introduction to the UNIX operating system, primarily focused on command line usage. Covers the UNIX kernel, filesystems, shells, user utilities, and UNIX's underlying philosophy and history. Also introduces students to the fundamentals of UNIX shell programming, processes, communications, and basic security.
Prerequisites	CIS 50A or 50B.
Units	5 Units. Three hours lecture, one hour lecture with hands on work. Four hours terminal time per week.
Instructor	Mike Cappella cis68a@mikecappella.com Available by appointment only
Class Meetings	Lecture M/W 6:00 – 7:50pm Room 5617 Lecture M/W 8:00 – 9:40pm Room 4219
Class Website	The class website at http://cis68a.mikecappella.com contains all class material. Please use the website as the definitive source for information and class content. Updates to handouts will be available shortly after class.
Textbooks	Required <u>Complete Idiot's Guide® to UNIX</u> , Bill Wagner, Published by QUE. ISBN: 0789718057 Recommended <u>THINK Unix</u> , Jon Lasser. Published by QUE. ISBN: 078972376X <u>Learning the UNIX Operating System, Fifth Edition</u> . Jerry Peek, Todino & Strang. Published by O'Reilly. ISBN: 0-596-00261-0 <u>UNIX in a Nutshell, Third Edition</u> , Arnold Robbins, Published by O'Reilly. ISBN: 1-56592-427-4
Supplies	None
Course Objectives	By the end of the course, you should minimally be able to: <ul style="list-style-type: none"> • Logon and use basic UNIX utilities • Evaluate, understand and execute fundamental UNIX operations • Analyze basic operational problems and errors • Discuss and employ basic techniques of data protection • Read and comprehend UNIX manual pages • Read and comprehend basic shell scripts
Requirements & Policies	<ul style="list-style-type: none"> • You are expected to attend all classes – notify instructor in advance if you cannot attend • Class attendance and participation is important and required – it <i>will</i> be a factor in your course grade • Be on time to class • Expect at least four hours of homework / terminal time per week • Turn off or quiet all cell phones, pagers, or other disruptive devices • No food or drink near computers or in the labs • No pornography or other possibly offensive or disruptive material on school computers • Keep track of and manage your own grades
Homework and Reading Assignments	All homework and reading assignments will be distributed in class and/or posted to the class website. You are responsible for ensuring that you know these assignments. Homework assignments are due by start of class on the due date, and all turned-in assignments (unless otherwise noted) must be type-written. The time of receipt for assignments turned in via email will be the e-mail's received time. Because the course will move quickly, late homework will generally not be accepted. Exceptions may be made on a case-by-case basis, but do not count on this, especially if you have not received prior approval. If you want to get the most out of the class, familiarize yourself with the reading material <i>before</i> lecture, and thoroughly afterwards.
Drops and Withdrawals	<ul style="list-style-type: none"> • You may be dropped from the course if you miss two or more consecutive classes without my prior approval • You will receive a letter grade in the course, unless you file a pass/no pass form or drop/withdrawal on time • It is your responsibility to notify me of your intention to drop the course, or file a drop card with the Registrar. Otherwise, you <i>will</i> be receiving a letter grade in the course. See Important Dates below.
Important Dates	<ul style="list-style-type: none"> • July 4th Independence Day - Campus closed • July 12th Last day to drop with no grade or to file pass / no pass • July 26th Last day to drop with a "W" (withdrawal) • August 7th Final Exam

Grading

You will receive a score for all submitted work. Your ultimate grade in the class will be based on the total number of points you have earned. Good participation in class will also positively influence your final grade. There will be no make-up work (homework, exams, etc.). Keep all of your returned work and track your own grades. Class points will be approximately distributed as follows:

Homework	20%
Periodic Exams	35%
Final Exam	45%

The grading scale for the course is as described below, but may be modified as deemed appropriate by the instructor.

A	<i>Excellent</i>	90 – 100%
B	<i>Good</i>	80 – 89%
C	<i>Satisfactory</i>	70 – 79%
D	<i>Less than Satisfactory</i>	60 – 69%
F	<i>Failing</i>	0 – 59%
P	<i>Pass</i>	70 - 100%
NP	<i>No Pass</i>	0 - 69%

Course Content

The course topics to be covered are listed below; however, this list may change as necessary or appropriate. Consult the class website for the list of the weekly topics.

• Overview of UNIX	• UNIX Documentation
• UNIX Accounts	• Shells
• Processes	• Files and Directories
• Permissions and Ownership	• Redirection and Pipes
• The vi Editor	• Regular Expressions
• Variables and Quoting	• Shell Scripting
• Conditional Execution and Loops	• Account Customization

Academic Honor Code

Foothill College expects that "*all students will pursue their studies with integrity and honesty*". Cheating, plagiarism, or any other form of academic dishonesty is taken very seriously. Any student caught or deemed to have engaged in such behavior will fail the assignment, and on any subsequent occurrence, will fail the course and be reported to the Dean of Student Affairs. It is your responsibility to know the school's policy on what constitutes academic dishonesty. For more information, see: <http://www.foothill.fhda.edu/services/honor.html>.