

CIS 129
Introduction to UNIX with Shell Scripting
Syllabus
50% Online
Spring - 2010

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Office Hours:

Tuesday & Thursday –

Office Location: T-162K

Catalog Description:

An intermediate level course that will teach the students the fundamentals of the UNIX Operating System. This will include the file system, e-mail, editor and standard UNIX utilities. Advance forms of utilities, regular expressions, shell scripts will be covered too. Also, there will be emphasis on how the UNIX shell operates.

Prerequisites: CIS 125 Principals of Programming with Logic.

Course Objectives:

- Explain what an operating system is.
- Describe the UNIX file system.
- Use at least one UNIX e-mail software package.
- Use the vi editor.
- Create text files.
- Design script file.
- Draw the file and directory organization of UNIX.
- Manipulate the directory organization.
- Use at least two dozen standard UNIX utilities.
- Write UNIX shell script.
- Define, profile, plan, and exrc file usage.
- Utilize sed, grep, awk and newer commands.
- Define regular expressions.
- Distinguish between different kinds of variables.
- Discuss the different shells available.

Text and Materials:

UNIX Unbounded, Amir Afzal, Fifth Edition, Prentice Hall

- At least one Scantron form.

CIS 129
Introduction to UNIX with Shell Scripting
Class Policies

1. Attendance:

Regular class attendance is necessary if a student is to receive maximum benefits from classes. Students are expected to attend all of the sessions of the classes for which they are enrolled. To encourage regular attendance the following penalties have been developed. For classes meeting twice a week, three (3) absences sixteen week sessions are allowed. For each absence in excess of this three (3) percent will be deducted from the final class percent.

If late, student **must** notify instructor, before leaving that session, of the tardiness. Otherwise, that student is considered absent.

2. Grading Scale

A = 92-100 B = 84-91 C = 76-83 D = 68-75 E = Below 68

3. Make-up Quizzes

If you do not take a test at the same time as everyone else in the class, it will be classified as a make-up. A make-up will be discounted at 15%. It is the responsibility of student to contact the instructor prior to the next class meeting after missing a test. The test should be made-up prior to the next class because it is generally procedure to pass graded test back to students at that time. If not made-up, a zero will be given.

4. Dropping Class

To receive a drop (W) for the class, the **student must drop officially** the class. A grade for the class will be given according to (2.) above if, the student does **not** drop the class. Telling the instructor of your intent **does not** accomplish an official drop. Tuition will be refunded according to the policy stated in the class schedule booklet during enrollment (or outline).

5. Grades – Page 7

6. Exercises and Assignments

You are expected to work on the questions yourself before obtaining assistance. This will allow you to achieve the maximum learning experience. If you are being asked questions, do not simply give away your answer. **Assist!**

These items will be due periodically. Half credit will be given if turned in late.

7. Class Schedule

First hour, to hour and a half – Lecture (tentative)
Rest of class time - Lab

8. **Open Lab Hours**

Schedule will be posted in hallway outside T-194.

9. **Presentation**

This is another possible extra credit project. You can choose any eight utilities not covered in class. Document the utilities and show how you can use them yourself.

Presentation can be five (5) minutes. At typewritten page for each utility must be turned in.

10. **Cheating**

Anyone cheating on an assignment, test or other type of homework will be given an automatic grade of "E". Plagiarism or copying will result in dismissal from class and an "E" grade.

11. **Erasures**

No erasures on Scantron forms will be allowed. A zero will be given for such work.

12. **Classroom Etiquette**

At all times be considerate to you classmates and to your instructor. Please be punctual and try to be quiet when leaving or entering the classroom. **No food or beverages are allowed in any classroom.** Students should be ready to ask questions about previous lessons/assignments. Ask pertinent questions; contribute to class discussions; and avoid "private" conversations that distract the instructor and other students.

13. **Tardies**

Two tardies equal one absence.

14. **Attach Files to e-mail.**

Use ^r to attach files to an e-mail for submission to instructor using Pine.

15. **Online tests.**

The tests will be setup on Thursday and taken down on Sunday at midnight. Do them early because none will be reset, that is if you wait till Sunday and there is a problem then student receives a zero for that test. I will check status periodically but procrastinators will be penalized.

Three things of significance should be kept in mind while taking online test/quiz if you do not want a zero for that quiz. Do not surf the net for answers while taking the test/quiz since that may disconnect you with no retake available. Do not check to see if the test/quiz is available before the scheduled time either. Lastly, I have preset the test/quiz so that if cannot be submitted with unanswered questions.

POLICY ON ACADEMIC DISHONESTY (CHEATING)

Henry Ford Community College considers academic dishonesty to be a serious offence. It is the policy of the College that determination of and appropriate action in respect to academic dishonesty by a student shall be a matter of individual judgment by the instructor. The instructor may administer a penalty up to and including failure in the particular course. It is the professional obligation of the faculty to enforce academic integrity in their courses.

Academic dishonesty is any activity intended to improve a student's grade fraudulently.* It includes, but no limited to, the following:

1. Unauthorized acquisition of test or alteration of grades (such as the stealing of test, test keys, or grade books from faculty offices or elsewhere, or the purchasing of test or grade books);
2. Unauthorized use of notes, books, or other prohibited materials during an examination;
3. Open cheating on an examination (Such as copying from another student's paper);
4. Permitting another person to take a test in the student's place or receiving unauthorized assistance with any work for which academic credit is received;
5. Providing unauthorized assistance with any work for which academic credits is received;
6. Revision of graded work in attempt to receive additional credit fraudulently;
7. Plagiarism (Using another person's work without acknowledgment);
8. Any other conduct intended to obtain academic credit fraudulently or dishonestly.

If an instructor fails a student in course for academic dishonesty, the instructor must immediately notify in writing the student and the registrar of the infraction, retaining copies of both notifications.

The registrar maintains a record of all such violations. If a student fails two classes as a result of academic dishonesty, he or she is dismissed from the College for two academic years. In addition, a notation of the reason for academic dismissal is placed on the student's transcript. The notation may be expunged at the discretion of the appropriate vice president if the student petitions for its removal after at least two years have elapsed since the disciplinary action.

If a student believes that the accusation is false, he or she may appeal through the Student Complaint Procedure. If the appeal reaches the Student Complaint Board, the Board may consider only whether the charge is justified. The Board may not set aside or change the penalty given by the instructor unless the charge of academic dishonesty is set aside.

* Any action that violates the Students Conduct Policy and Due Process Procedure is also Subject to review under that policy.

SEE COLLEGE CATALOG FOR MORE INFORMATION.

Tentative Outline

Sessions	Lecture	Assignments
Week 1	Chapter 2-The UNIX OS	Lab
	Chapter 3-Getting Started	Lab-Terminal Session Project 1 assigned Quiz-Chapters 2&3
Week 2	Chapter 4-The vi Editor: First	Lab-Terminal Session
	Chapter 6- The vi Editor: Last	Lab-Terminal Session Quiz-Chapters 4&6
Week 3	Chapter 5- Intro UNIX File System	Lab-Terminal Session
	Chapter 8- UNIX File System Cont do-while, do-until	Lab-Terminal Session Quiz-Chapters 5&8
Week 4	Chapter 9- Exploring the shell	Lab-Terminal Session
	Class Lab for project 1	Project 1 due
	Chapter 9- Continued	Lab-Terminal Session
	Chapter 10- UNIX Communication	Quiz-Chapters 9&10
Week 5	Chapter 11- Programming Development	Lab-Terminal Session Project 2 assigned
	Chapter 12-Shell Programming won, svi, box, +, if-then, greetings, largest, for-do, slp, counter	Lab-Terminal Session Quiz-Chapters 11&12

Tentative Outline

Sessions

Lecture

Assignments

Week 6

Chapter 13- Shell Scripts (more)
(Read first ½)

Lab-Terminal Session

Class Lab for project 2

Project 2 due

Week 7

Chapter 14- Farewell to UNIX
Plus awk, compress, etc

Lab-Terminal Session
Quiz-Chapters 13&14

FINAL Exam

Lectures and handouts
Project 3 due
Extra credit due