



Fall 2005

COURSE SYLLABUS COSC ITSC 1407 UNIX Operating System

Instructor Information:

Professor:	Kevin Roark	E-mail:	roarkk@grayson.edu
Office Phone:	903-463-8665	Office Hours:	Posted on office door

Course Website: We will be using WebCT as well as www.profroark.com

Required Materials:

- 1. Textbook:** *Just Enough UNIX* Fifth Edition, by Paul Andersen. This text is available in the GCC bookstore.
- 2. Internet:** A dependable Internet connection running at least 28.8K.
- 3. Software:** Telnet, SSH, and an FTP Client. (software will be provided by instructor)

Course Description:

ITSW 1407. UNIX Operating System I. (3-2-4). CIP: 52.1201(WECM)

Formerly COSC 2385. A study of the UNIX operating system including multiuser concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Topics include introductory systems management concepts. Transition from MS-DOS to UNIX. Basics of the UNIX operating system, shells, editor, cron, and UNIX utilities.

Prerequisite: ITSC 1305 or consent of division dean. (R)

General Course Objectives:

See attached sheets for SCANS objectives.

Methods of Instruction:

Class time will be used for lecture, instructor guided hands-on practice, and self paced laboratory time for one on one instruction and completion of the required lab assignments.

Evaluation Methods and Important Information:

EXAM STRUCTURE

A variety of formats will be used on each exam to provide a level playing field to every student. These formats include, but are not limited to, True/False, Multiple Choice, Fill in the blank, Matching, Short essay/answer, and Practical application. The mix of these formats will be at the discretion of the instructor.

For exams missed due to absences that are not for official school activities **and** approved by the instructor in advance. Avoid unexcused make-up exams at all cost – they are traditionally more difficult.

Absences for official school activities must be arranged and approved by the instructor in advance, and exams missed due to approved activities must be taken in advance of the regular test date.

T.A.S.P. PROFICIENCY

The Texas Academic Skills Program (TASP) is required by Texas law to ensure students enrolled in Texas public colleges possess the academic skills needed to perform effectively in college-level course work. TASP includes a testing component designed to identify and provide diagnostic information about the reading, mathematics and writing skills of each student. This course has been identified as a *Reading Intensive* course for the purposes of TASP.

HOW TO SUCCEED IN THIS CLASS

Motivation and effort on the part of the student determines success in class. Here are some guidelines and suggestions for you to follow if you are a new student and want to succeed. First, come to class every day and be on time. Second, prepare a calendar which lists all test and homework assignment due dates for all classes. Third, spend an hour each day reviewing and summarizing your class notes. During your summarization, be sure to mark items the instructor repeats two or three times . . . this material will probably be on the test. Fourth, prepare and print your assignments at least two days BEFORE they are due. Review your work before it is due to make sure you haven't left out any answers. Fifth, ask questions! If you don't understand something, chances are someone else doesn't either & they're too scared to ask! Finally, turn in all work on time, and look over the material to be lectured on, **read the textbook, and make use of the web site resources provided by the publisher and professor.** Remember that what you get out of college is directly proportional to the amount of time and effort you put into college.

"LATE PAPER" POLICY:

Since some of your assignments must be submitted on-line, you should allow yourself ample time to submit the assignment before the due date. Points will be deducted for any late paper/project/lab (usually 15% per calendar day), even in the event of an absence. **Absolutely no assignments are accepted after three days or the last lecture period of the semester.**

"TESTING OUT" POLICY:

You may not "test out" of this class. If you feel that the course level is below your present abilities, please contact your me during the first week of class so you can be enrolled in a more challenging computer science course.

ACADEMIC FRAUD:

Scholastic honesty and integrity are vital to the ongoing interests of any academic community. Students have a responsibility to protect their work and to report instances of academic dishonesty to the appropriate instructor or administrator. Any instance of 1) plagiarism, 2) collusion, 3) cheating, or 4) falsifying records, will result in an F for the assignment. Further action will be taken as needed.

1) Plagiarism includes:

- a. Using a sentence or another's key ideas without placing punctuation marks around the words and/or giving credit to the author.
- b. Using another person's ideas without giving him or her credit.
- c. Submitting another person's work as one's own.

2) Collusion is defined as working on any assignment with another person without the written permission of the instructor.

3) Cheating includes:

- a. Copying work from another student.

- b. Using materials during the examination not authorized by the instructor/test administrator.
 - c. Substituting for another student, or permitting another student to take an exam in one's place.
 - d. Using, buying, selling, stealing or giving examination material. or assignments.
- 4) Falsifying records or evidence includes furnishing false or misleading information to any college office or representative.

THE CASE OF THE "DISAPPEARING STUDENT":

If you find yourself in over your head, please observe the drop dates on the course calendar. You may drop this course by calling the Registrar's Office at 903-465-6030. Please do not "disappear" for two or three weeks and suddenly "reappear" and ask to be given special permission to make up the required work. If you are going to be out of town for any length of time during the semester, let your instructor know via e-mail or in person.

Grading Policy:

1. GRADING SCALE:

A*	1044 – 1160 pts
B	928 – 1043 pts
C	1042 – 812 pts
D	811 – 696 pts
F	Below 695 pts

2. GRADING CRITERIA:

Tutorials(10)	300 points.
Quizzes (6)	60 points.
Exams (3)	300 points
Final Exam (Comprehensive)	200 points
Labs (6)	300 points

- **To obtain an A in this course you must complete all labs and assignments as well as maintain an A average on your work.**

Attendance Policy:

The official policy on attendance, as stated in the college catalog is as follows: "Academic success is closely associated with regular classroom attendance. All students are required to attend classes regularly and punctually. Responsibility for work missed because of illness or school business is placed upon the student. More than two absences are considered to be excessive. The first two absences are not considered "free cuts". Students who discontinue attending classes and fail to drop or withdraw will receive grades of F."

With this policy and the fact that I must call roll every class period in mind, I have included in-class assignments and quizzes in the evaluation criteria to reflect the importance of attendance in the overall course grade. After two absences per semester, **additional absences will reduce the student's overall grade by 5 grade points per absence.** Student athletes and students missing classes for school sponsored activities are **REQUIRED** to

report absences in advance and make arrangements to turn in all work before the due date, take any missed exams in advance, and obtain class notes from a classmate.

Other Important Information:

Students with any special needs should inform the instructor and contact the Disability Services Coordinator in the Learning Assistance Center no later than the first week of the course so that appropriate and reasonable accommodation may be made. Once appropriate documentation for the disability is received, the Disability Services Coordinator will coordinate delivery of approved accommodations with students and their instructors.

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance and an attitude that seeks to take full advantage of the educational opportunity.

You are personally responsible for your conduct and achievement in this course. Please be aware of this statement and philosophy and plan accordingly.

Please feel free to email me with any questions or concerns. If you ever need to Email me an attachment please indicate what the attachment is and its purpose in the body of the email. Make sure you put GCC Computer Science in the subject line or I may delete the email!



SCANS COMPETENCIES

COSC 1301 Introduction to Computer Science

1.0 EXHIBIT ETHICAL INDIVIDUAL AND TEAM BEHAVIOR.

1.1 Work independently on assigned labs.

1.2 Observe lab rules.

1.3 Work with team members on team project.

2.0 DEMONSTRATE ABILITY TO FUNCTION AS AN EFFECTIVE TEAM MEMBER.

3.0 DISPLAY THE IMPORTANCE OF QUALITY.

3.1 Complete all assigned projects completely and accurately.

4.0 DEFINE THE BASIC CHARACTERISTICS OF ELECTRONIC MAIL AND ON-LINE HELP: mail, talk, and man.

5.0 DEFINE THE BASIC CHARACTERISTICS OF FILES AND DIRECTORIES: ls, cat, more.

6.0 DEFINE THE BASIC CHARACTERISTICS OF THE vi SCREEN EDITOR.

7.0 DEFINE THE BASIC CHARACTERISTICS OF THE pecos LINE EDITOR.

8.0 DEFINE THE BASIC CHARACTERISTICS OF THE emacs EDITOR.

9.0 DEFINE THE BASIC CHARACTERISTICS OF MANIPULATING FILES AND DIRECTORIES: my, cp, and mkdir.

10.0 DEMONSTRATE THE ABILITY TO CREATE SHELL SCRIPTS.

11.0 DEMONSTRATE THE ABILITY TO USE THE UNIX SHELL: Command Lines, Redirection, and Shell Scripts.

12.0 DEMONSTRATE KNOWLEDGE OF FILE MANAGEMENT COMMANDS: AND OTHERS: wc, sort, lpr, and chmod.

13.0 DEMONSTRATE KNOWLEDGE OF MORE TEXT PROCESSING: join, sed, and nroff

14.0 DEMONSTRATE KNOWLEDGE OF INFORMATION PROCESSING: grep, find, and awk.

15.0 DEMONSTRATE KNOWLEDGE OF ADVANCED EDITING TECHNIQUES.

16.0 DISTINGUISH BETWEEN MACHINE LANGUAGE AND SOURCE CODE IN A COMPUTER ENVIRONMENT.

17.0 EXPLAIN AN ASSEMBLER, A COMPILER, AND AN INTERPRETER.

18.0 DESCRIBE HOW VIRTUAL MEMORY SYSTEMS ARE PHYSICALLY IMPLEMENTED.

19.0 EXPLAIN THE UNIX I/O AND THE BUFFER POOL.

20.0 EXPLAIN THE VIRTUAL MACHINE CONCEPT.

21.0 UNDERSTAND AND APPRAISE THE UNIX OPERATING SYSTEM.

24.1 List the rules for defining a UNIX file name.

24.2 Distinguish the root directory, a user's home directory, and the current working directory.

24.3 Exhibit the use of pwd, ls, cat, cp, and UNIX subdirectories.

24.4 Explain UNIX wild card characters.

24.5 Explain redirection.

24.6 Explain pipes and filters.

24.7 Briefly explain shell scripts.

24.8 Summarize the functions performed by the unix shell.

24.9 Explain the significance of the UNIX kernel.

24.10 Explain UNIX process creation.

24.11 Discuss UNIX process management.

24.12 Discuss UNIX memory management.

24.13 Discuss the UNIX file system.

22.0 SUMMARIZE THE USE OF KEY UNIX COMPONENTS AND POINTERS.

INTEGRATION OF ACADEMIC SKILLS, WHICH INCLUDES MATHEMATICS, COMMUNICATION SKILLS, TEAM DYNAMICS, READING, AND/OR CRITICAL THINKING SKILLS