

CS590 Syllabus and Course Summary

Instructor: Richard Johnson Email: richj@hiwaay.net Phone: 963-7168 (work) Web Page: http://www.annrich.com/cs590	Class Time: TR 5:00 – 07:00 P.M. Location: TH N324 Office Location: TH N336 Office Hours: TR 07:00 – 08:00 P.M.
Text: <i>Advanced Programming in the UNIX Environment.</i> W. Richard Stevens 2005. (2 nd edition) References: <i>UNIX Network Programming (Volume I): Networking API's: Sockets and XTI</i> W. Richard Stevens 1998. <i>UNIX Network Programming (Volume II): Interprocess Communication</i> W. Richard Stevens 1999.	Grade Policy Homework.....25% Quizzes.....10% Midterm.....30% Final Exam35%

The following grading scale will be used in this course:

A+ 95; A 92; A- 90; B+ 88; B 85; B- 80; C+ 78; C 75; C- 70

The **plus/minus grading system** will be used in this course and such grades will appear on your transcript. In accordance with University policy, they will **not** affect your grade point average (GPA).

Catalog Description:

Advanced strategies for the design and development of systems and programs in the UNIX environment. Emphasis on automated tool and system development using UNIX tools. Parallel and supercomputer issues as treated by UNIX and C. Advanced shell concepts and programming including control flow and interrupt handling. Process and interprocess communications.

Prerequisite: CS 390 or two years experience in UNIX; Strong C programming skills; CS490 or CS690 helpful.

Course Goals:

- To provide a background on the UNIX system call interface.
- To provide experience in the system call interface, concurrency, and interprocess communication.
- To introduce network programming under UNIX.

Homework:

There will be 4 programming assignments in this class comprising 25% of the overall grade. Each assignment will be designed to reinforce concepts presented in class. Students are expected to do their own work on all homework assignments.

Quizzes:

We will have weekly quizzes comprising 10% of the overall grade. Quizzes must be taken in class on the day they are given, and cannot be made up after the fact. Since missing a class is sometimes unavoidable, each student will be allowed to drop their lowest quiz score.

Student Responsibility:

You are responsible for all material covered in class. If you are going to miss a class, inform the instructor at least one week in advance, and try to arrange for a classmate to take notes for you.

It is important for your instructor to be able to evaluate your work fairly and accurately in this course. It is therefore expected that, for both exams and programming assignments, you will do your own work, and submit your own work. See the UAH Student Handbook, for policies relating to student's rights, responsibilities, and academic behavior. You are encouraged to ask your instructor if you have questions or concerns about any of these policies or procedures.

Late / Missed Assignments:

Students are encouraged to submit all assignments on the scheduled day at the beginning of class, and to be present for all examinations. Late homework assignments will be assessed a 10% penalty per calendar day (including weekends), and not accepted after 4 days late. Missed examinations may not be taken after the scheduled date unless arrangements are made with instructor at least one week prior to the exam.

Attendance:

Class attendance is completely optional; however, class assignments and schedule changes will only be announced during class meetings. Furthermore, there may be material covered in class that does not come from the textbook. I strongly encourage you to attend class regularly, and make arrangements to get notes from a friend if you must miss class.