CIS 220 - COMPUTER SCIENCE AND PROGRAMMING

Brian Brown

TIME: MWF 2:00 - 2:55 Rm. B-102 **OFFICE HOURS:** MWF 1:00 - 2:00, 3:00 - 4:00 Rm. B-102 (Office)

COURSE OBJECTIVE: Students will develop an understanding of the concepts and fundamentals of computer science and computer programming. In particular, students will learn the intricacies of the PERL programming language.

GRADES will be determined based upon the following criteria:

1. (50%) 5 quizzes -- NO MAKE-UP QUIZZES, DO NOT BE LATE FOR CLASS!!

2. (25%) Group Project Presentation - students will receive a portion of their grade from other members of their group.

3. (25%) Weekly homework assignments -- LATE HOMEWORK WILL NOT BE ACCEPTED !!

A - 90% to 100% B - 80% to 89% C - 70% to 79% D - 60% to 69% F - 59% and below

ATTENDANCE POLICY:

The COM-FSM Attendance Policy will be observed.

COURSE CONTENT:

PERL Introduction
 Programming Basics (ch. 3)
 Strings and Text (ch. 5 & 9)
 Numbers and User Input (ch. 6)
 Lists and Arrays (ch. 7 & 9)
 Conditionals and Loops (ch. 8)
 Subroutines and Command Line Arguments (ch. 10)
 File Manipulation(ch. 12 & 13)
 Pattern Matching (ch. 14) - SHORT WEEK
 Associative Arrays and Multidimensional Arrays (ch. 16)
 Forms & CGI (ch. 11) or Object-Oriented Programming (ch. 19) - SHORT WEEK
 OS Terminal Commands and Batch Files - SHORT WEEK
 Other Programming Languages: Visual Basic for Applications via MS Access
 Other Programming Languages: Java

TEXTBOOK:

PERL online documentation.

GROUP PROJECT:

Students will split up into groups of 2-5 to complete the project of their choice.

Deliverables: Group Project Presentation during FINAL EXAM time.

Ideas: - Create a word processing program. - Create a spreadsheet program. Create a cd catalog system. - Create a database program. - Create a taxcalculation program. - Create a game. - Create a digital calendar. - Create a
tutorial. - Create a file encryption program. - Create a file management program
(copy, delete, rename, change date, split files, make directories, etc.). Create a program that processes Hotmail text files. - Create a program that
processes HTML files. - Create an image processing program.

(spring2001_cis220_syllabus.doc, 1/12/2001, BB)