COMPUTER SCIENCE 150
SYLLABUS
Spring 2002

Instructor: Fang Chen
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Office Hour: To be posted and by appointment

Course Content: CS 150 is an introduction to programming concepts and to programming in the C language.

Course Objectives: At the end of the course, the students should be able to write, compile, and debug programs in the C language. The students should be able to employ all the flow of control constructs, the basic data types, and the basic operators except bit operators.

Texts: *Problem Solving in C Including Breadth & Laboratories*, by Angela B. Shiflet.

HONOR CODE: THE HONOR CODE OF OXFORD COLLEGE APPLIES TO ALL WORK SUBMITTED FOR CREDIT.

Attendance: Students are expected to attend all classes and are responsible for all material covered in class as well as any changes made in the schedule regarding homework, computer programs and exam dates. Class attendance and consistent preparation for class will determine the success or failure the student realizes in this course. **Missing more than three classes without legitimate reasons will result in appropriate academic penalty.**

Homework: Homework will be assigned on a regular basis, but will not be collected and graded. Solutions to some of the homework problems will be put on reserve in the library. To become a good programmer, you must consistently write and debug programs.

Labs: One absence is permitted for lab – **NOT** to occur on a lab exam date. **Any absence after that will result in a deduction of 5 points off the final lab grade for each absence.** Each lab is required to be completed and handed in at a scheduled time. No late labs will be accepted unless permission granted by the instructor. There will be a total of 10 labs and the completion of each lab by the due date is worth 10 points in the final grade.

Quizzes and Lab Exams: Six announced written quizzes will be given in class and three lab exams will be given during the lab time.

All tests are comprehensive. You are expected to take them at scheduled times only. Usually, no make-up tests are given. (Legitimate emergencies will be handled on an individual basis.) If you have a situation that would prevent you from taking a scheduled exam, you must see the instructor **BEFORE** the scheduled test. Otherwise, a grade of zero will be recorded for that test.

Course Project: The course project will require the student to apply what he has learned, and further explore the programming tools and techniques through doing the project. Several general topics will be assigned and basic requirements will be given, in addition to which the students are encouraged to think independently and creatively. Originality and creativity will be part of the evaluation guidelines. More details will be given when the project is assigned.

Special Concerns: Students with disability concerns verified by the Disability Services at the University should approach the instructor as early as possible in the semester to ensure proper accommodations.

Evaluation:

10 Labs @ 10 points each	100
6 Quizzes @ 50 points each	300
3 computer lab exams @ 100 points each	300
Lab Project	150
Final Exam	150
Total points	**1000**

The following scale will be used to assign letter grades:

A:	900 – 1000 points
B:	800 – 899 points
C:	700 - 799 points
D:	600 - 699 points
F:	Below 600 points

Grades of A-, B+, B-, C+, C-, D+ may be assigned for sums of points near the above cutoffs in total points.

Schedule of Exams and Project:

Lab Exam I – February 12 Lab Exam II – March 5

Lab Exam III – April 23 Final Exam – 9 a.m. - 12 p.m., May 3

Proposed Dates for Course Project:
Assigned – March 21
Draft Due – April 18
Final Version Due – April 30

Schedule of Classes:

January 16 - January 31
The UNIX operating system; Basics of Programming
Lecture Notes and selected material from Textbook Chapters 1, 2, and 3

February 5 - March 7
Control Structures: Functions, Selections and Loops
Lecture Notes and selected material from Textbook Chapters 3, 4, 5, and 6

March 19 - April 30
More on Programming: Characters, File Operations, Arrays, and Pointers
Lecture Notes and selected material from Textbook Chapters 7, 8, and 9

Remarks:

1. Computer terminals connected by Ethernet to the mainframe on the Atlanta campus are located in Pierce Hall, Humanities Hall, Oxford College Library, Jolley Residential Center, Branham/East Residence Hall, and Haygood Hall.

2. A class conference for this course on Learnlink will be created and announced. Students are responsible to check the conference and your e-mails regularly for information and announcements. Students are also encouraged to participate in any discussion in the conference. Please make the conference appear on your Learnlink desktop, so that you will be aware of any new messages.

3. Students will be using the UNIX operating system on Dooley/Eagle. Every student should make sure to have an account on Dooley. If there is any problem with the account, please contact Oxford Computing.