

**COMPUTER SCIENCE 150
SYLLABUS
Spring 2001**

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Office Hour: To be announced or 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 except structures, and the basic operators except the bitwise 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. YOUR WORK ON EXAMS IS TO REPRESENT YOUR WORK AND YOURS ALONE. AN ATTACHMENT TO THIS SYLLABUS FULLY EXPLAINS THE RESPONSIBILITY OF THE STUDENT REGARDING THE USE OF COMPUTING EQUIPMENT AT OXFORD COLLEGE.

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.

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 either during the current lab session or by the next lab session. 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.

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.

Quizzes: Announced and unannounced quizzes may be given. No make-up quizzes will be given. The lowest quiz grade or one missed quiz grade will be dropped.

Exams: All exams are comprehensive. You are expected to take the exams at scheduled times only. The written exams will be in class, and the lab exams will be during the lab time. Usually, no make-up exams 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 me BEFORE the scheduled exam. Otherwise, a grade of zero will be recorded for that exam.

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Project: Students will be assigned a term project that will cover most of the topics discussed in the course. The project will be assigned in the last week of March, and the initial version will be due in mid-April. Students will then present their projects in class. The final version of the project is due on April 26, 2001.

Grading:

| | |
|----------------------------------------|------------|
| 10 Labs @ 10 points each | 100 |
| 5 Quizzes @ 20 points each | 100 |
| 2 written exams @ 100 points each | 200 |
| 3 computer lab exams @ 100 points each | 300 |
| Project | 100 |
| Final Exam | <u>200</u> |
| 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:

| | |
|--------------------------------------|--------------------------|
| Exam I – February 15 | Lab Exam I – February 13 |
| Exam II – March 8 | Lab Exam II – March 20 |
| Project Final Version Due – April 26 | Lab Exam III – April 24 |
| Final Exam – May 3 (2 p.m. – 5 p.m.) | |

Schedule of Classes:

| | |
|-------------|------------------------------------------------------------------------|
| 1/18 – 2/13 | The UNIX operating system Topics selected from Chapters 1, 2, and 3 |
| 2/15 – 3/6 | Topics selected from Chapters 3, 4, 5, and 6 |
| 3/20 – 5/1 | Topics selected from Chapters 6, 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.

COMPUTER LABORATORY RULES

1. The Honor and Conduct Codes of Oxford College apply to the activities of students in the Oxford College Computing Center. Any willful destruction of software, hardware, or files will be turned over to the Honor Council or Conduct Board.

During most operating hours lab assistants are in charge of the laboratory procedures. These lab assistants keep the log sheets, assign students to terminals or microcomputers, issue printouts, enforce time limits and priorities, maintain order, and assist students with basic software questions.

2. Only one person at a time is allowed at a terminal or a microcomputer unless performing assignment where cooperation is allowed.
3. The telephone is for use by assistants and faculty only.
4. FOOD AND BEVERAGE ARE NOT PERMITTED IN THE LAB AT ANY TIME.
5. Files saved on the hard disk of any lab computer will be erased. Save important files on your own disk. Lab assistants will be happy to help with this process. Disks may be purchased at the college bookstore.
6. There is to be No copying of programs from or to the hard disks on any of the microcomputers. This especially applies to commercial programs.
7. If there are students waiting to use the terminals, there will be a one hour time limit on their use. Lab assistants will monitor this activity.
8. ACADEMIC USE OF THE COMPUTERS HAS PRIORITY OVER ANY USE OF THE COMPUTERS FOR RECREATIONAL ACTIVITIES.
9. For further rules and regulations, please refer to the following web page:
<http://www.emory.edu/ITD/POLICY/>