

CS120-Introduction to Business Computing - Spring 1998

Introduction

This course is designed to develop skills in programming, problem solving, and the use of computers. The major topics are: object-oriented programming and structured problem-solving. Programming will be in C++.

Instructor: Alan P. Batson
Olsson 208
982-2208
apb@virginia.edu

Office Hours: Tuesday, Wednesday, 2:00-3:00pm
and by appointment
(changes will be posted on the Web page - www.cs.virginia.edu/cs120)

Lectures:

| | | |
|--------------|------------|-----------|
| Section 0001 | 09:00am MW | Maury 209 |
| Section 0002 | 11:00am MW | MEC 205 |

Labs: Friday

The lab sections are numbered 0004 through 0011.

They meet at 1:00, 2:00 and 3:00 pm on Fridays. We will be assigning students to labs during the week of January 19.

Students **must** always attend their assigned lab session. We will be keeping all grading information by lab session, so as far as I am concerned, students belong to a lab session rather than a lecture section.

To repeat, you **cannot switch labs**.

TA Office Hours - in OLS 018 - the ITC public lab:

The Teaching Assistants will be holding Office Hours on Tuesday, Wednesday and Thursday evenings in the computer lab in B018. These times have not yet been determined.

Times will be announced in class and will be posted on the class web page.

Required Course Materials:

Text: "Problem Solving with C++", by Savitch (Addison Wesley)
Floppy disks: At least two 3 1/2 inch HD (1.4M) diskettes.

Grade Determination:

| | |
|----------------------|-----------|
| Two one-hour exams | 15% each |
| Final exam | 30% |
| Quizzes | 20% total |
| Homework Assignments | 20% total |

The lowest quiz score will be dropped.

All requests for adjustment of a grade on a quiz, homework, or examination **must be made within two weeks** of when the paper was returned to you. Don't even imagine you can approach a TA the day before the final exam with a request like "well, I should have more points on that first quiz"

Test Dates:

| | |
|----------------------|---|
| First one-hour exam | Friday, February 20, 1998 |
| Second one-hour exam | Friday, March 27, 1998 |
| Final exam | Friday, May 1, 1998; 7:00-9:00 pm (Saturday, May 2, 1998; 7:00-9:00 pm for those taking French 1xx, 2xx) |

Etiquette:

This is a large class. Please be considerate. Attendance at the lectures is recommended, but if you talk, rustle newspapers, or otherwise distract your neighbors, you should not be in the classroom.

Computing Facilities:

Do your programming in the facilities in Olsson 018, Cocke Hall, Clemons, or Gilmer 109, all of which run Borland C++ 4.51. The dormitory facilities also have this C++ system installed, so you can work in your dorm room or in the dorm laboratory. The consultants in the labs are there to answer questions about the use of the computers and the software. Consultants do not answer programming questions.

The Catlin Laboratory (the **Stacks**) at the front of Thornton Hall does **not** run this version of C++, and also runs a different operating system. I suggest you avoid this lab for your CS120 work.

Programming Assignments:

These, while graded, are unpledged. We encourage you to discuss programming assignments with other students, but **do not simply copy** someone else's homework to make it your own. When you do this, you don't learn anything for yourself, and you don't prepare yourself for the gruesome problems you will have to solve in the quizzes and the exams, which count for the vast bulk of your final grade. So, be smart. **Do your own homework.** The TAs are there to help you when you get stuck. Your Instructor can help you too during his office hours. **Late assignments will not be accepted; the grade will be 0.** Assignments will be turned in at your lab on Friday and should be returned to you in your lab the following Friday.

Absences from Quizzes, Tests, and Exams:

If you must miss a quiz or an exam, send email to the Instructor **beforehand**. Acceptable excuses are usually limited to serious personal problems, religious observances, or substantial participation in University-sanctioned student events. You need a note from an official of the Athletic Department to be excused because of participation in a varsity sports event. Examples of unacceptable excuses are job interviews, weddings, or the desire to be absent either before or after Spring Break, or to leave before the end of the exam period.

"Excused" quizzes are omitted from the computation of the overall quiz grade. We do not provide "make-up" quizzes.

Communication with Students:

We will use electronic mail to communicate with individual students. Students should use e-mail to contact their lab section TA, using the address shown on page 1:
(for example: **cs120-6@cs.virginia.edu**). Don't forget the **cs**!

We will also maintain a web page for the course at **www.cs.virginia.edu/cs120**.

TENTATIVE SCHEDULE

(This is essentially Savitch's Reordering 2 (page ix) but with arrays introduced before chapter 7. Structs (6.1) are omitted)

| Week of | Topics, Exams (Approximate) |
|---------|--|
| Jan 14 | Wednesday only: Organize; Labs do "Getting Started". |
| Jan 19 | Introduction to C++. 1.2. 1.3 and 2.1. |
| Jan 26 | Continue I/O 2.2. Object types 2.3. |
| Feb 2 | Control 2.4, compound statements, etc. Style 2.5. |
| Feb 9 | Functions 3.1, 3.2. Prototype and call - black box 3.4 (skip 3.3). |
| Feb 16 | Function definition 3.3, locals 3.5, globals (skip overloading). Friday EXAM 1. |
| Feb 23 | A simple class; Functions - call-by-reference - chap 4. |
| Mar 2 | More functions; Testing and stubs. |
| Mar 9 | SPRING BREAK!!! |
| Mar 16 | I/O Streams and Classes - Chapter 5. |
| Mar 23 | I/O Streams continued. Character I/O. Omit 5.4. Friday EXAM 2. |
| Mar 30 | Arrays (Chapter 9). Skip 9.4. More Flow of Control (Chapter 7). |
| Apr 6 | More Arrays, for loops, etc. |
| Apr 13 | Classes (omit structs, 6.1). |
| Apr 20 | Classes and 9.4 (end of arrays). |

FINAL EXAM

Friday, May 1 7-9pm
Sat., May 2 (alternate for French 1xx,2xx students) 7-9pm

