Welcome to Computer Science 1044
Introduction to Programming in C/C++
Instructor and Course Information

Instructor:

Instructor: William D McQuain
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Office: 631 McBryde Hall
Office Hours: 2:00—4:00 MW
and by appointment

Course Description

Credits: (2H, 2L) 3 credits
Prerequisites: None. However, computer/web literacy is assumed. For CS majors, we also assume a minimum of one year of programming background in a suitable language. If you lack that, you should consider enrolling in CS 1114 instead.

Objectives:

The purpose of this course is to teach the fundamentals of structured programming and problem solving in the C/C++ programming language.
Texts & References

Required:


Recommended:

*CS 1044 Course Notes, Fall 2002 Edition*, by McQuain and Barnette, ©2002

(available for purchase at A-1 Copies in University Mall)

Other Useful Sources of Information:

- Visual C++ Online Help
- CS 1044 website: [http://courses.cs.vt.edu/~cs1044/fall02/mcquain/](http://courses.cs.vt.edu/~cs1044/fall02/mcquain/)
- C/C++ Usenet group: [alt.comp.lang.learn.c-c++](mailto:alt.comp.lang.learn.c-c++)
Evaluation

Evaluation and Grading:

Point Distribution

Final grades will be based on the average achieved over the following:

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
<th>Tentative Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-lab Assignments and Homework</td>
<td>20%</td>
<td>Varied</td>
</tr>
<tr>
<td>Out-of-lab Projects and Software Engineering</td>
<td>40%</td>
<td>Varied</td>
</tr>
<tr>
<td>Tests (2)</td>
<td>8%, 12%</td>
<td>TBA</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
<td>TBA</td>
</tr>
</tbody>
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Grade Scale:

The usual 10-point scale will apply (subject to any curve). A final average of 90% will guarantee an A-, 80% will guarantee a B-, and so forth.

Curve

A grade curve may or may not be employed in this course. The application of a curve is dependent upon class performance on tests and homework. The decision to utilize a curve rests entirely with the course instructor.
Class Organization

Sources for Help/Questions etc.
- CS 1044 Classmates:
  - CS 1044 Forum for questions
  - CS 1044 TAs & Instructor
  - CS 1044 Listserv for announcements by instructor, etc.

General C++ Language Help
- USENET Newsgroup: alt.comp.lang.learn.c-c++
  - A panel of "experts" will respond to questions.
  - We DO monitor the group.

Lecture Instruction
- Lectures will consist of presentations, applications, problems and solutions, ideally interspersed with classroom discussion.

Lab Instruction
- Lab sessions will involve a variety of assignments designed to develop skills and illustrate lecture topics.
Test Environments

- All programming assignments submitted are required to compile under Microsoft Visual C++ .NET or the CS 1044 Sandbox, or both.
- Programs will be tested under Windows NT or 2000.
- It is the student’s responsibility to ensure that his/her programs execute correctly in the appropriate environment; programs that do not will receive substantial deductions.

Program Evaluation

- Students are required to submit their source code files to the Curator system.
- Be sure to read the Student Guide to Submitting in the course notes pack. It describes how to prepare to submit a program to the Curator and discusses how the Curator scores your submissions.
- All submissions to the Curator are subject to the Virginia Tech Honor Code. Read the online Course Policy Statement for a detailed discussion.
Backups

- **Students are responsible for making backup copies of all their work in this course.** Loss of work due to hard drive failure is **NOT** an acceptable excuse. Backup copies of files on the same hard drive are not backup copies. Backup copies of files on second hard drives are also risky. Backup copies should be maintained on two separate distinct storage mediums, (e.g., hard drives and floppies).
- Backup copies should be maintained until after the end of the term and students have received their course grade. (The Army lives by triplicate for a reason.)
- Remember: Computer systems contain mechanical devices. Systems fail. Plan for it. It is inevitable!

Deadlines

- **Assignments have deadlines.**
- **Deadlines are temperamental little beasts; hug one too tightly and it is likely to bite.**