

# CS2604: Data Structures and File Processing

## Summer II, 2001

**Class:** MTuWThF 9:30-10:45 in Pamplin 2030

**Instructor:** Marc Vass [mvass@vt.edu]

Office: McB 535

Office Hours: MTuWThF 11am - 12pm

**GTAs:** Amit Karnik [akarnik@vt.edu]

Matthew Aguirre [maaguirr@csgrad.cs.vt.edu]

**Hours and Location on Course Webpage**

**Prerequisites:** Everyone: Math 2534 or Math 3034  $\geq$  D-

For CS majors and minors:  $\geq$  C (2.0) in CS 2704

For CpE majors NOT minoring in CS:  $\geq$  C- (1.7) in CS 2704

All others:  $\geq$  D- (0.3) in CS 2704

**Textbook:** *A Practical Introduction to Data Structures and Algorithm Analysis – Second Edition*

By Clifford A. Shaffer

A copy of the overheads is available in PowerPoint form on the course webpage

**Course Homepage:** <http://courses.cs.vt.edu/~cs2604/>

**Grading:** 3 Projects: 50%

Midterm: 15%

Final: 15%

Pop Quizzes: 5%

Homework: 15%

Honor Code: The Honor Code (particularly, the departmental policy at <http://www.cs.vt.edu/academics/ugrad/koof.html>) applies to this course and will be strictly enforced. Homework and exams must be done strictly on an individual basis. Design and coding of programming assignments must be done strictly on an individual basis. It is acceptable to discuss with classmates a programming assignment in general way, i.e., the nature of the assignment and requirements of the program. The individual statements of a program or the steps leading to the solution of the problem should only be discussed or shown to the GTAs for this course, the instructor, or the free tutors provided by ACM or UPE. Always give credit for work that is not entirely your own (e.g., parts of programs or homework answers borrowed from a book).

Prerequisites: The prerequisites for this course will be rigorously enforced. I will not make any exceptions to these requirements. Any student found to not meet the requirements will be subject to an honors violation report on the basis of falsification or qualifications. An exception can be made for CpE majors if their grade in the prerequisite course is < C- provided they bring a form signed by an advisor in the ECPE Department allowing them to proceed with lower than a C- in the prerequisite course. In all cases, the student is responsible for knowing all the prerequisite material.

Programming Projects: The programming projects must be implemented in Standard C++. You may use any Standard conformant compiler you like, however all programming assignments submitted are required to compile under either Microsoft Visual C++, version 6.0 or the GNU g++ compiler installed on the FreeBSD machines in McB 124. Programs will be tested under either Windows NT or FreeBSD. It is your responsibility to ensure that your programs execute correctly in the appropriate environment.

The MS Visual C++ 6.0 compiler is the only one supported for this course. That means that neither the instructors nor the TAs for this course will answer questions about the use of any other compiler, including earlier versions of Visual C++. The Visual C++ compiler is installed on the Windows PCs in the McBryde 116/118 computer lab, and in several University computer labs around campus. If you are using another operating system or compiler you are strongly advised to test each of your programming projects in the lab prior to submission.

All the programming projects will be submitted electronically, using the Curator System. See the Curator Project Guides Page (<http://ei.cs.vt.edu/~eags/CuratorGuides.html>) for details and software. Be sure to download and read the *Student Guide to the Curator* — it contains the answers to most of the questions students have about the Curator System. The *Student Guide* also contains information about how the Honor Code applies when using the Curator; be sure to read and follow the guidelines given there.

### Assignments and Grading Policy:

Pop quizzes: The lowest pop quiz grade will be dropped. There will be no make-ups for missed pop quizzes.

Projects: Each of your programming projects will be graded for correctness as well as adherence to good software engineering principles, including documentation, design, conformance to the stated specification, and programming style. Each project specification will include explicit guidelines that you will be expected to follow, in addition to the general software engineering principles discussed in class. Programs are due by the date and time specified. A late penalty of 10% per day late will be enforced. Any project submitted more than one minute after the due date and time is one day late. Requests for extensions must be made within 24 hours in advance of the due date. Programs may not be submitted more than three days, 72 hours, late (eg. due date-Monday 12:01am, last possible submission is at Thursday 12:01am).

Homework: Homeworks are due in class at the date and time specified. No late homework assignments will be accepted unless an extension has been granted beforehand. As with the projects: requests for extensions must be made within 24 hours in advance of the due date. Solutions to the homeworks must be typeset using a word processor or plain ASCII text. They must also be printed out. Scanned documents are not accepted.

Midterm and Final Exam: There will be an in-class midterm and a final exam. The final will be given on August 10<sup>th</sup> from 10:30am to 12:30pm in Pamplin 2030. This is the only time this exam will be given unless you have a valid excuse. If you miss the midterm under any circumstances, the percentage allotted to it, 15%, will be added to the final exam, so that the final will be worth 30% of your grade.

Grading Questions and Complaints: Any questions or complaints about the grading of any work in this course must be raised within three days of the day the scores are made available.

Special Accommodations: If any student needs special accommodations because of a disability, please contact the instructor during the first week of classes.