

**Structured Programming in C++ (Course Number: CSC-121-68)  
Spring Semester, 2004  
Camden County College (Cherry Hill Campus/Rohrer Building)  
Room 101  
Meeting Times: Friday, 5:20PM – 8:40PM**

Instructor: Professor Gregory Safko  
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Text: Friedman and Koffman: Problem Solving, Abstraction, and Design Using C++  
(Fourth Edition) (Required)  
Publisher: Prentice Hall  
ISBN 0-321-19178-6

Grading: Homework/Classwork: 20%  
2 Tests: 15% each = 30%  
Projects: 20%  
Final Exam: 30%

Letter Grade: A: 90 to 100  
B: 80 to < 90  
C: 70 to < 80  
D: 60 to < 70  
F: Below 60

Homework and exam policy:

Most of the homework assignments will be programming assignments. You may get help from classmates on debugging your program or on understanding the features of the programming language, but the design of the program should be your own, and you should type your own program and code, test it, and print it.

Exams will focus on the concepts covered in Friedman and Koffman and the lectures. The final exam will be cumulative but will emphasize material from the second half of the course. In addition, there will be 2 quizzes.

You may bring to the quizzes one 8 1/2 x 11" sheet of paper containing any course information that you find useful. (I suggest including notes on points of the language syntax that you find hard to remember.) The quizzes will be closed book otherwise.

The mid-term and final exams will be closed book.

Grade points will be deducted for late homework at the rate of 25 points per day (this is much better than a policy where no late work will be accepted). Homework that runs more than a page must be stapled together, with your name on each page. If there are compelling reasons that force you to submit late work, please discuss them with me beforehand. Exceptions may be granted on a case-by-case issue.

I do not accept extra credit work to improve grades.

Life happens, and you may have to miss a class when I am administering an exam. If you miss an exam, the burden is on you to schedule a mutually convenient make-up time. In fairness to others, however, the make-up exams are more challenging.

#### Classroom policy:

With the exception of “baby beepers” or EMT beepers, the use of cell phone, pagers, and beepers are not permitted in the classroom. This also includes alarm watches.

The classroom is an area of learning. It is not an area where your friends and children hang out while you attend class. If you are bringing friends or children along because of circumstances beyond your control (carpooling, etc.) please have them wait for you in the lobby areas while you attend class.

No food or drinks of any type are permitted in the classroom.

#### Prerequisites:

None, but it helps to have some familiarity with the Windows operating systems for the programming portions of the course – how to use editors, how to print files, and how to do basic file management (copying files, creating directories, and so on).

#### Course Topics:

Structured Programming in C++ is comprised of both lecture time and lab time (programming). You will write, compile and run structured procedural (i.e. non-Object Oriented) programs that will demonstrate a mastery of the basic concepts of the C++ language (operators, data types, pointers, arrays, etc.)

#### Important Dates:

Check out the academic calendar at [www.camdencc.edu/programs\\_courses/academic\\_calendar.htm](http://www.camdencc.edu/programs_courses/academic_calendar.htm)

### Attendance Policy:

All students are expected to attend all classes. This includes arriving late and leaving early. Due to the accelerated nature of this course, it is extremely difficult to catch up on missed material. Excessive absences or lateness will affect your grade. In any case, please extend the courtesy to me and let me know if you will be absent or late.

### Other important information:

Camden County College's Emergency Closing Number is 559 for the daytime, 2559 for the nighttime.

### Approximate Schedule (As of January 23, 2004):

Please do each reading assignment before that evening's class.

Jan 30

Class 1: Introduction & Syllabus  
Computer Science and Programming: An Overview  
An Overview of C++  
First Programs  
Data Types  
Escape Sequences  
Standard workspaces  
Readings: Chapter 1 & 2

Feb 6

Class 2: Math operations in C++  
Programming Logic  
Readings: Chapter 3 & 4

Feb 13

Class 3: Programming Errors  
Top-Down Design  
Functions  
Classes  
Decision and Control Structures and Statements  
Boolean Operators  
The `for` structure  
The `switch` structure  
The `do/while` structure  
The `break` and `continue` statement  
Readings: Chapter 5

Feb 20

Class 4: Repetitions and Loop Control Structures  
Readings: Chapter 6

Feb 27

Class 5: Lecture (tentative)  
**Exam 1**  
Readings: TBA

Mar 5

Class 6: Modular Programming (Part 1 of 2)  
Readings: None

Mar 12

Class 7: Modular Programming (Part 2 of 2)  
Readings: Chapter 7

(No Class March 19 – School Closed – Spring Break)

Mar 26

Class 8: Data Types  
Readings: Chapter 8

April 2

Class 9: Input and Output Files (Part 1 of 2)  
Streams and Files  
Readings: TBA

April 9

Class 10: Input and Output Files (Part 2 of 2)  
Readings: Chapter 8 & 9

April 16

Class 11: Lecture (tentative)  
**Exam 2**  
Readings: TBA

April 23

Class 12: Special Topics (if time permits)  
Readings: Chapter 9 (Only the sections on Arrays)

April 30

Class 13: Special Topics (if time permits)  
Readings: TBA

May 7

Class 14: Special Topics (if time permits)  
Final Exam Review

May 14

Class 15: **Final Exam**