

**Structured Programming in C++ (Course Number: CSC-121-68)
Fall Semester, 2004
Camden County College (Cherry Hill Campus/Rohrer Building)
Room 101
Meeting Times: Friday, 5:20PM – 8:55PM**

Instructor: Professor Gregory Safko
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Phone Numbers:
Day Secretary (Renee Pollard): 856-227-7200 X 4261
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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 tests during the semester.

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

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 September 9, 2004):

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

Sept 10

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

Sept 17

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

Sept 24

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

Oct 1

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

Oct 8

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

Oct 15

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

Oct 22
Class 7: Modular Programming (Part 2 of 2)
Readings: Chapter 7

Oct 29
Class 8: Data Types
Readings: Chapter 8

Nov 5
Class 9: Lecture (tentative)
Exam 2
Readings: TBA

Nov 12
Class 10: Input and Output Files (Part 1 of 2)
Streams and Files
Readings: TBA

Nov 19
Class 11: Input and Output Files (Part 2 of 2)
Readings: Chapter 8 & 9

Dec 3
Class 12: Special Topics (if time permits)
Readings: Chapter 9 (Only the sections on Arrays)

Dec 10
Class 13: Special Topics (if time permits)
Final Exam Review
Readings: TBA

Dec 17
Class 14: **Final Exam**