

Department of Information Systems and Statistics
Baruch College Zicklin School of Business
City University of New York

CIS 3100 – Object Oriented Programming I

Instructor: Professor Linda Weiser Friedman
Office: 11-228 (NVC)
Email: Linda.Friedman@baruch.cuny.edu
Alternate Email: Prof.Friedman@gmail.com
Office hours: Mondays 4:30 - 5:30 and by appointment

Text: Gaddis, Tony. *Starting Out with C++: From Control Structures through Objects*, 8th edition. Pearson, 2014.

The one we ordered for our students in all sections of CIS 3100 is the 'looseleaf' edition with access code for web access to the e-book and to MyProgrammingLab for homework exercises. Available at the bookstore or directly from the publisher: <http://www.mypearsonstore.com/bookstore/starting-out-with-c-plus-plus-from-control-structures-9780133862232> . Also available - e-text only, with access code for MyProgrammingLab, direct from publisher: <http://www.mypearsonstore.com/bookstore/myprogramminglab-with-pearson-etext-instant-access-0133780554>

MyProgrammingLab CourseID for my students: **TBA (maybe)**

Recommended text: Hubbard, John R. *Schaum's Outline of Programming with C++*. McGraw Hill, 2000.

Software: Baruch CIS students may download MS Visual Studio (with C++) for free at <http://e5.onthefhub.com/WebStore/ProductsByMajorVersionList.aspx?ws=499f8e3c-c09b-e011-969d-0030487d8897>

COURSE OUTLINE (subject to change)

Week	Topic	Gaddis
1	Course Overview, Introductory Concepts, Hardware, Software, the Programming Process, Types of programming languages, Integrated Programming environment Introduction to C++ programming: identifiers, operators, types, <i>cout</i> , writing our first programs, programming style	Ch. 1 Ch. 2
2	Controlling execution: Expressions. Formatting output. Debugging. Controlling execution: Decisions. Scope.	Ch. 3 Ch. 4
3	Controlling execution: Loops. Counters. Nested loops. Using files.	Ch. 5
4	Reinforce control structures.	
5	Program design: what makes a good program? program structures, data structures, stepwise refinement. Possibly start Functions. One to two programs due by this date.	
6	Program design: Defining and using Functions	Ch. 6
7	Review / Exam #1. One to two programs due by this date.	
8	Data design: Using Arrays (1-dimensional)	Ch. 7
9	Strings	Ch. 10

10	Data design: Structures (records) Data design: File I/O	Ch. 11 Ch. 12
11	Review / Exam #2. One to two programs due by this date.	
12	Pulling it all together: Objects and Classes	Ch. 13
13	Objects and Classes, continued.	Ch. 14
14	Review. One to two programs due by this date.	
	Final Exam (35%)	

Grading:

Exams and quizzes– 50%

Final exam – 35%

Programming Assignments – 10%

Class participation – 5%

Homework (MyProgrammingLab) – up to 5 points extra credit added to your course average

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