

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

CIS 3100 – Object Oriented Programming I

Instructor: Professor Linda Weiser Friedman

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Office hours: Tues 1:00-2:30pm and by appointment

Course Coordinator: Professor Linda W. Friedman (me)

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: **BARCUN-5601-0**

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.onthehub.com/WebStore/ProductsByMajorVersionList.aspx?ws=499f8e3c-c09b-e011-969d-0030487d8897>

DYNAMIC 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

ACADEMIC HONESTY: The Department of Statistics & Computer Information Systems fully supports Baruch College's policy on Academic Honesty, which states, in part: "Academic dishonesty is unacceptable and will not be tolerated. Cheating, forgery, plagiarism and collusion in dishonest acts undermine the college's educational mission and the students' personal and intellectual growth. Baruch students are expected to bear individual responsibility for their work and to uphold the ideal of academic integrity. Any student who attempts to compromise or devalue the academic process will be sanctioned." Additional information may be found at http://www.baruch.cuny.edu/academic/academic_honesty.html