Syllabus

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About CIS 3100

This course emphasizes an object-oriented approach to solving computer programming problems. Using these techniques leads to shorter system development life cycles, increased programmer productivity, code reusability, and reduced system maintenance costs. This course provides a thorough, practical knowledge of object-oriented programming methods. Students learn the principles underlying programming using a language such as C++.

This is the first part of a two-semester sequence. No prior knowledge of computer programming is required.

Learning Objectives

Upon successful completion of this course, students will be able to:

- Develop an understanding of the form and structure of the C++ programming language.
- Become familiar with the steps in the program development process.
- Understand common methods and algorithms used in computer problem solving and be able to express those algorithms in the C++ language.
- Develop solutions to a variety of programming problems using the C++ programming language

Textbook

Starting Out with C++: From Control Structures through Objects
by Tony Gaddis
Pearson, 2011

Tentative Schedule

Week	Date	Topics	Room	Readings
1	01/27/18	Introduction to Programming	12-130	1 & 2
2	02/03/18	Control Structures	12-130	3 & 4
3	02/10/18	Loops	12-130	5
4	02/17/18	Functions	11-125	6
5	02/24/18	Exam #1	11-125	-
6	03/03/18	Arrays	12-130	7
7	03/10/18	Pointers and Memory Management	11-125	9
8	03/17/18	Structures & Files	11-125	11 & 12
9	03/24/18	Lab Session	11-125	-
-	03/31/18	No Class	-	-
-	04/07/18	No Class	-	-
10	04/14/18	Exam #2	11-125	
11	04/21/18	Objects & Classes	11-125	13 & 14
12	04/28/18	Lab Session	11-125	-
13	05/05/18	Lab Session	11-125	-
14	05/12/18	Lab Session	11-125	-
15	05/19/18	Final Exam	11-125	

Course Deliverables

Deliverable	Points
Labs & Assignments	250
Exam #1	200
Exam #2	250
Final Exam	300

Grade Distribution

Grade	Point Equivalent	Score
A	4	930-1000
A-	3.7	900-929
B+	3.3	871-899
B	3	830-870
B-	2.7	800-829
C+	2.3	771-799
C	2	730-770
C-	1.7	700-729
D+	1.3	671-699
D	1	600-670
F	0	below 600

Assignments and Project

Late assignments will not be accepted. If you miss any classes during which we complete assignments, you will lose the points for the missed assignment.

Due dates will be strictly enforced. Links to instructions for all assignments and the project will be available through blackboard. Unless otherwise stated, all deliverables will be submitted through the 'Assignments' section in blackboard.

For the group project, each team member is required to contribute his/her fair share of work for each deliverable that requires teamwork. The instructor reserves the right to ask for percentage of work contribution by each team member for all deliverables. Work distribution should be done within each team for each deliverable rather than across deliverables. In other words, team members should contribute equally towards the development of each of the deliverables listed in this syllabus.

Class Participation, Attendance and Student Performance

All students are required to attend all classes. If one or more classes are missed, it is the student's responsibility to determine the specific material covered during their absence and make the necessary arrangements for making up what is missed. Class discussion is strongly encouraged. No direct credit shall be awarded for attendance. However, since parts of assignments are done during class sessions, missing classes will lead to partial or complete loss of grade for assignments done during those class sessions. Assigned readings should be read before each class session. This course requires continuous commitment of students both inside and outside of the classroom.

Academic Integrity Statement

The CIS Department 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 can be found

at http://www.baruch.cuny.edu/academic/academic_honesty.html.

Deliverables that are required to be completed individually should not involve collaboration with other students. Deliverables that are required to be completed in a team should not involve collaboration across teams. Unauthorized collaborative work will result in appropriate disciplinary action. Academic sanctions in this class will range from a grade of F on the assignment to a grade of F in the course. A report of suspected academic dishonesty will be sent to the Office of the Dean of Students.