



Computer Applications SUR 112



Benha University

Surveying Engineering Department

Faculty of Engineering
(at Shoubra)

Course Title: Computer Applications
Course Code: SUR 112
Instructor: Dr. Islam ElShaarawy
Main Textbook: "C++ How to Program" by Deitel and Deitel¹
[C++ How to Program, 3/e](#)
[C++ How to Program, 3/e \(Slides\)](#)
[C++ How to Program, 3/e \(Examples\)](#)
Other References: <http://www.cplusplus.com/doc/tutorial/>
<http://en.cppreference.com/w/>

Course Contents:

1. Introduction to Computers
 - Hardware/Software
 - Operating Systems
2. Introduction to Computer Programming
 - Machine Language and Assembly Language
 - High Level Languages
3. Problem Solving Concepts
4. Control Structures
5. Functions
6. Arrays
7. Strings

Attendance Policy:

1. Attendance is expected.
2. Whether you attend or not, you are responsible for keeping track of whatever happens during the lectures and the tutorials.
3. Side talking, cellphones, laptops, food/drinks, and walking² are not allowed.



Grading System:

Attendance³:	00%
Assignments:	05%
Quizzes:	05%
Midterm Exam:	10%
Oral Exam⁴:	20%
Final Exam:	60%

1 I am using the *third edition* but you can use any.

2 If you are late for the lecture, you are allowed to walk into the lecture hall but quietly.

3 Attendance will be taken anyway.

4 There will be a semester project that will be discussed during the oral exam