



Computer Applications SUR 112



Benha University

Surveying Engineering Department

Faculty of Engineering
(at Shoubra)

- Course Title:** Computer Applications
- Course Code:** SUR 112
- Course Page:** <http://www.bu.edu.eg/staff/islam.elshaarawy-courses>
- Instructor:** Dr. Islam ElShaarawy (<http://www.bu.edu.eg/staff/islam.elshaarawy>)
- Main Textbook:** Tony Gaddis. *Starting Out with C++ from Control Structures to Objects*. 8th Edition, Pearson Education, Inc, 2014, ISBN 978-0133796339.
http://wps.pearsoned.com/ecs_gaddis_sowcpp_cs_8/244/62625/16032052.cw/ 
- Other References:** <http://www.cplusplus.com/doc/tutorial/> 
<http://en.cppreference.com/w/> 
- Other Resources:** <http://scratch.mit.edu/> 
<http://flowgorithm.org/> 
http://www.tutorialspoint.com/compile_cpp_online.php 

Course Contents:

1. Introduction to Computers and Programming
2. Introduction to C++
3. Expressions and Interactivity
4. Making Decisions
5. Loops
6. Functions
7. Arrays
8. Searching and Sorting Arrays

Attendance Policy:

1. Attendance is compulsory.
2. **Reading the relevant chapter(s) ahead of lectures is essential.**
3. Keeping track of whatever happens during the lectures is the student responsibility regardless of attendance.
4. **Leaked solution manual as well as any other resources (unless otherwise specified) should never be used for solving the assignments.**
5. Side talking, cellphones, laptops, food/drinks, and walking¹ are not allowed.



Grading System:

Attendance²:	00%
Assignments:	05%
Quizzes:	05%
Midterm Exam:	10%
<u>Oral/Practical/Project:</u>	10%
Final Exam:	70%

1 If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.
2 Attendance will be taken anyway.