Global Learning Semesters
Course Syllabus
Course: COMP-255 C++ Language Programming
Department: Computer Science
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary

Course Code	Course Title	Recommended Credit Hours
COMP-255	C++ Language Programming	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall, Spring	42	COMP-152
Department	**Level of Course**	**Language of Instruction**
Computer Science	Lower Division	English

Course Description

- Introduction to C++.
- Control Structures: If/else structures, switch, loops.
- Arrays (one-dimensional and two-dimensional arrays) and classes used as data-structures. Strings and Pointers.
- Functions and scope rules (value and reference parameters, returned values).
- Recursion.
- Introduction to the object-oriented features of C++.
- File processing.

Instructor

Dr. S. Louca

Course Aims and Objectives

The course aims to develop further the programming skills of students in a conventional programming language and introduce the concepts of Object-Oriented programming through the C++ language. More specifically, the course aims to familiarize students with new concepts such as: pointers, classes used as data structures, recursion and introduce them to Object-Oriented programming.

Teaching Methods

The course is delivered through lectures, assignments and supervised structured laboratory exercises.

Course Teaching Hours

42

Evaluation and Grading

Test A:	15%
Test B:	20%
Homework Assignments:	25%
Final Exam:	40%

Readings and Resources

Required Textbook

Deitel & Deitel, C++ How to Program, 2nd Edition, Prentice Hall Inc., 1998.

Recommended Reading

M. Harman, R. Jones, First Course in C++, A Gentle Introduction, 1997, McGraw Hill, (ISBN: 0-07-709194-9).

B. Stroustrup, The C++ Programming Language, 3rd Edition, Addison-Wesley, 1997