



**AMERICAN UNIVERSITY
OF CYPRUS**

Course Code CSC101	Course Name Introduction to Computer Science	ECTS Credit 7.5
Pre-Requisite	Course Type Compulsory	Language of Instruction English
Year of Study 1 st / 1 st	Level of Course BSc/1st Cycle	Mode of Delivery On Campus

Course Objectives:

The purpose of the course is to provide introductory and fundamental knowledge of computer science so that the student is properly prepared to attend most of the courses in the department's curriculum.

Learning Outcomes

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

- Implement Computer Science in various fields
- State the importance of the Computer Science discipline.
- Describe and be familiar with the basic computer modules
- Understand basic programming principles
- Describe the interconnection and communication of computers through local, regional, and global computer networks
- Know the internet services and take advantage of the opportunities offered by the World Wide Web
- Know basic concepts of the Unix operating system at the user's level

Teaching Methodology:

Lectures 42 hours, Labs 30 hours

Course Content

Computer Science in modern society

Recording the impact and applications of Computer Science in various fields, such as industry, education and entertainment.

Structure of computers

Hardware and units that the computer is made of.

Software

Categories of software

Programming

Basic programming principles and study of problem-solving methods by creating algorithms.

Computer communications, Networks

Introduction to basic principles of Computer Networks and Data Transfer.

Internet and search engines

Introduction to the Internet and Search Engine technologies.

Assessment Methods:

Final Exam, Mid-Term/Lab Exam, Assignment

Required Textbooks/Reading:

Title	Author(s)	Publisher	Year
COMPUTER SCIENCE: AN OVERVIEW	Brookshear, J.G.,	Pearson	2014
COMPUTER SCIENCE ILLUMINATED	Dale, N, Lewis, J.,	Jones & Bartlett Publishers	2015