

# Global Learning Semesters

## Course Syllabus

Course: COMP-252A Computer Concepts

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
COMP-252A	Computer Concepts	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	COMP-151A
Department	Level of Course	Language of Instruction
Computer Science	Lower Division	English

### Course Description

Study of the function and architecture of computer hardware and software technologies. Includes data and instruction representation, networks, operating system functions, database management, and programming languages. Also includes supervised structured laboratory exercises.

### Prerequisites

COMP-151A

### Topic Areas

1. Information System Concepts. The competitive role of I.S.; Systems and Organizations; Cases.
2. Information, Decision Making, and Models. Data, information, and knowledge; Characteristics of data and information; Data and instruction representation.
3. Computers and Computer Systems. How they operate; Data input, storage, output.
4. Software and programming. Operating system functions. Computer networks.
5. Database and Database Management Systems. Overview of database processing. Organizing Data in a Database. Data Models: Relational, Hierarchical, Network.
6. Database design and implementation of relational databases.
7. Database administration & security.
8. Database creation commands; data manipulation; maintenance techniques and control structures; I/O techniques; environment commands; indexes; functions and procedures; report generation. (Using Microsoft Access)

### Readings and Resources

**Required Textbooks**

- R. Grauer and M. Barber, Exploring Microsoft Access 2000, Prentice Hall.