

# Global Learning Semesters

## Course Syllabus

Course: COMP-353 Programming Languages

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
COMP-353	Programming Languages	3
Semester Offered	Contact Hours	Prerequisites
Fall/Spring	42	COMP-301 Data Structures
Department	Level of Course	Language of Instruction
Computer Science	Upper Division	English

### Course Description

Comparative study of the various types of computer languages: procedure-oriented, program-oriented, fourth generation, event-driven, and object-oriented. The general principles of modern programming language design: Imperative (as exemplified by Pascal, C, and Ada), functional (Lisp), and logical (Prolog) languages. Data management, abstract data types, and object-oriented languages (Ada, C++). Control structures, syntax and formal semantics.

### Instructor

Nicolaou Neophytos

### Course Aims and Objectives

To introduce students to the various types of computer languages, principles of programming language design, syntax and formal semantics

### Teaching Methods

The course is delivered through a mixture of lectures, lab presentations, lab tutorials and practical exercises and assignments.

### Course Teaching Hours

42 hours (18 hours lectures/presentations + 24 hours laboratory work). The course is delivered during the Fall and Spring semesters in 14-weeks (3 hours/week). During the Summer session the course is delivered in 7 weeks (6 hours/week).

### Evaluation and Grading

Homework: 20%  
Mid-Term: 30%

Final Exam: 50%

## Readings and Resources

### Required Textbook

H.E. Bal, D. Grune, Programming Language Essentials, 1994, Addison-Wesley, (ISBN:0-201-63179-2)

### Recommended Reading

M. Marcotty, H. Ledgard, Programming Language Landscape; Syntax, Semantics, Implementation, Sra Science-Research Associates, Inc.