

## Global Learning Semesters

### Course Syllabus

Course: MATH-340 Discrete Mathematics

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
MATH-340	Discrete Mathematics	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	MATH-191: Calculus and Analytic Geometry II
Department	Level of Course	Language of Instruction
Computer Science	Upper Division	English

### Course Description

The following topics are covered: Propositions and Logic, Mathematical Induction, Set Theory, Relations and Functions, Graph Theory, Recursion Trees and Algorithms.

### Instructor

Dr George Portides

### Course Aims and Objectives

This course develops the student's ability to construct formal algorithms to solve problems in the areas studied.

### Teaching Methods

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

### Course Teaching Hours

42 hours (42 hours lectures/presentations/tutorials). The course is delivered during the Fall and Spring semesters in 14-weeks (3 hours/week).

### Evaluation and Grading

Class Participation/Homework/Quizzes: 0-30%  
Mid-Term(s): 30-50%  
Final Exam: 40-50%

### Readings and Resources

**Required Textbook**

Haggarty Rod, Discrete Mathematics for Computing, Addison Wesley, 2002. ISBN: 0-201-73047-2.