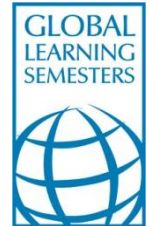# Global Learning Semesters
Course Syllabus
Course: MATH-375 Numerical Analysis I
Department: Computer Science
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	**Course Title**	**Recommended Credit Hours**
MATH-375	Numerical Analysis I	3
Semester Offered	**Contact Hours**	**Prerequisites**
Fall	42	MATH-275: Scientific Programming Laboratory MATH-270: Calculus and Analytic Geometry III
Department	**Level of Course**	**Language of Instruction**
Computer Science	Upper Division	English

Course Description

The following topics are covered: analysis of errors, solutions of non-linear equations, solution of systems of linear equations, polynomial interpolation, numerical differentiation and integration.

Instructor

Dr Nectarios Papanicolaou

Course Aims and Objectives

To introduce the students to the study of approximation techniques for solving mathematical problems, taking into account the extent of possible errors.

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 semester 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
Burden and Fairs, Numerical Analysis, Sixth Edition, PWS-Kent, 1997. (ISBN: 0-534-91585-X)