Global Learning Semesters
Course Syllabus
Course: MATH-330 Differential Equations
Department: Computer Science
Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	**Course Title**	**Recommended Credit Hours**
MATH-330	Differential Equations	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: First Order Differential Equations and Initial Value Problems, Introduction to Modeling and Simple Applications in Physics and Engineering, Linear Higher Order Ordinary Differential Equations, Solutions of Linear Differential Equations by Lap lace Transforms, Series Solutions of Differential Equations, Systems of Ordinary Differential Equations.

Instructor

Dr Nectarios Papanicolaou

Course Aims and Objectives

To prepare students for advanced engineering and mathematics courses by covering several methods of solution of ordinary differential equations.

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
Boyce and DiPrima, Elementary Differential Equations and Boundary Value Problems, John Wiley & Sons, Inc., Seventh Edition, New York, 2001. (ISBN: 0-471-31999-6)