

## Global Learning Semesters

### Course Syllabus

Course: MATH-280 Linear Algebra

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
MATH-280	Linear Algebra	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	MATH-190: Calculus and Analytic Geometry I
Department	Level of Course	Language of Instruction
Computer Science	Lower Division	English

### Course Description

The following topics are covered: Systems of linear equations, matrices, determinants, vectors, introduction to linear transformations, vector spaces, subspaces, basis and dimension, rank of a matrix, eigenvalues and eigenvectors.

### Instructor

Dr Katerina Nicolaou

### Course Aims and Objectives

To introduce students to the study of systems of linear equations. It is designed to give the students a background in Linear Algebra with equal emphasis on the geometric motivation of topics, the theoretical import of major theorems, and the application of concepts.

### 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**

Bernard Kolman, David R. Hill, Introductory Linear Algebra with Applications, Seventh Edition, Prentice Hall 2001.  
ISBN: 0-13-018265-6.