

## Global Learning Semesters

### Course Syllabus

Course: MATH-220 Statistics

Department: Computer Science

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
MATH-220	Statistics	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring, Summer	56	MATH-105 (Intermediate Algebra) or MATH-160 (College Algebra) or Pass the Mathematics Placement Test 105 (MPT-105) or Pass the Mathematics Placement Test 160 (MPT-160)
Department	Level of Course	Language of Instruction
Computer Science	Lower Division	English

### Course Description

The course includes a thorough reference to descriptive statistics, a brief reference to probability theory and probability distributions and an introduction to statistical inference. More specifically the following topics are covered: Data Summarizing, Histograms, Frequency Distributions, Measures of Central Tendency, Measures of Variation, Introduction to Probability Theory, Discrete Probability Distributions, The Normal Distribution, Sampling Distributions, Parameter Estimation, Confidence Intervals and Hypothesis Testing.

### Instructor

Dr Stavros Pouloukas

### Course Aims and Objectives

To familiarize students with basic concepts of statistics and their application. To treat statistics as an aid to decision making.

### Teaching Methods

The course is delivered through a mixture of lectures, tutorials, practical exercises, assignments and quizzes. Lab presentations and lab tutorials using an appropriate mathematical software and/or demonstrations by a graphic calculator are also used.

### Course Teaching Hours

56 hours (56 hours lectures/presentations/tutorials). The course is delivered during the Fall and Spring semesters in 14-weeks (4 hours/week). During the Summer session the course is delivered in 7 weeks (8 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

Brace and Brace, Understandable Statistics, 7th Edition, Houghton Mifflin, 2003. ISBN 0-618-20554-3.