

COURSE TITLE : **PRE-CALCULUS MATHEMATICS**

COURSE NUMBER : **MATH 110**

CREDITS : 3

PREREQUISITE : NONE

ECTS CREDITS : 6

OFFERED : FALL & SPRING

SEMESTER HOURS : 36

**COURSE DESCRIPTION & OBJECTIVES :**

This course provides the fundamental basis in mathematics necessary to prepare students who need an algebra-trigonometry review to bridge the gap between elementary algebra and the more advanced courses in precalculus mathematics. It is designed to meet the goal of developing mathematical skills, instill confidence, and incorporate an ability to solve problems quickly and accurately, relevant to the demands of modern business.

**INSTRUCTIONAL METHODOLOGY :**

Presentation of the material to be covered, exercises to be done at home and then presented and explained in class. Will be dealt with in class :

- Basic concepts and properties
- Equations and inequalities
- Polynomials
- Rational expressions
- Exponents and radicals
- Quadratic equations & inequalities
- Coordinates geometry & graphing techniques
- Functions
- Systems of equations & inequalities
- Basic concepts of trigonometry

TEXTS : ***Beginning Algebra with Applications***, Aufmann et al, 7<sup>th</sup> Edition, 2007  
***Explorations in College Algebra***, Kime & Clark, Wiley

**EVALUATION :**

The final grade will be made up of a class tests and homework correction (20%), a mid-term test (40%) and a final examination (40%).