MA 1205 - COLLEGE ALGEBRA

Credits: 3

This course provides students an integrated approach to algebraic topics through applications and visualizations. Topics include equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series, permutations and combinations, the binomial theorem, and theory of equations. Upon successful completion of the course, students will show their mastery of the topics discussed through assignments and exams.

Prerequisites: none

Course Learning Outcomes:	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes
Understand algebra and functions in problem solving and modeling.	Applies algebra and functions in problem solving and modeling.	Explains algebra and functions in problem solving and modeling.	Recognizes algebra and functions in problem solving and modeling.	Does not understand algebra and functions in problem solving and modeling.	LA1, LA6	Critical Thinking
Understand quantitative literacy skills.	Applies quantitative literacy skills.	Explains quantitative literacy skills.	Recognizes quantitative literacy skills.	Does not understand quantitative literacy skills.	LA1, LA6	Critical Thinking
Understand examples of quantitative needs in other disciplines inside and outside the realm of academia.	Analyzes examples of quantitative needs in other disciplines inside and outside the realm of academia.	Explains examples of quantitative needs in other disciplines inside and outside the realm of academia.	Recognizes examples of quantitative needs in other disciplines inside and outside the realm of academia.	Does not understand examples of quantitative needs in other disciplines inside and outside the realm of academia.	LA1, LA2, LA4, LA6	Critical Thinking Communication Competence