

MATH 106: Algebra and Elementary Functions

This detailed course description provides information about course topics & content. It is not a course syllabus. Summer 2013 course syllabi are updated in the spring, and may not be available until summer classes begin.

Instructor Information

Instructor	Email	Course Format	Number of Credits
Raji Baradwaj	Raji@umbc.edu	Lecture	3

General Information

Course Format Other

3 hours per week in a regular semester in spent in lecture

Delivery Format

In-Person

Prerequisite /Co-requisite:

A suitable score in the Math placement test

Course Materials

Currently Used Materials

- Online component called ALEKS

Course Objectives/Learning Outcomes:

This course is taught more like a college algebra course. We use an online program called Aleks as a learning component. This course gives a good foundation for Precalculus and Applied calculus courses. The students are encouraged to think mathematically.

Potential Topics Covered:

The topics covered include:

- Polynomials - Operations with polynomials and factoring
- Exponents
- System of linear equations
- Rational expressions - Operations like addition, subtraction, multiplication, division, and complex fractions
- Rational Equations
- Quadratic and polynomial equations
- Functions - Domain and Range of various functions, Operations with functions, Inverse functions, inverse functions, transformations of functions
- Quadratic, exponential, logarithmic functions in detail

Instructions for Visiting Students:

In order to register in this class, students have to get a suitable score in the placement test, or have an equivalent pre requisite course credit from a previous institution.

Additional Information and Resources

This course is also offered as a hybrid course in the regular semester, with one 50 minute lecture and one 50 minute computer lab.