

MATH 150: Precalculus

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, Discussion	4

General Information:

Course Format Other

In a regular semester, students spend three hours in lecture and 50 minutes in discussion. In an eight week course in summer, we have 6 hours of lecture and two fifty minutes discussion with a teaching assistant.

Delivery Format

In-Person

Prerequisite /Co-requisite:

Pre-requisite is Math 106 or a suitable score in the math placement test

Course Materials:

Currently Used Materials

- Precalculus By Stewart, Redlin, Watson 6th edition

Course Objectives/Learning Outcomes:

Math 150 is a pre requisite course for Calculus I, Math 151. This course prepares the students with a strong foundation in algebraic and trigonometric skills needed for calculus.

Potential Topics Covered:

- Inequalities
- Functions - Domain range, piecewise, average rate of change of a function, transformations, operations, inverse functions
- Quadratic functions and its applications, polynomial functions, division of polynomials, Rational functions
- Exponential and logarithmic functions, graphs, and its applications,
- Trigonometry - Unit Circle and right triangle approaches
- Graphs of trigonometric functions and inverse trigonometric functions,
- Identities, Addition, subtraction formulas,
- Law of Sines, Law of Cosines and their applications,
- Trigonometric equations,
- Polar coordinates and equations

- Conics - Parabola, Hyperbola, Ellipse sequences and Series.

Instructions for Visiting Students:

This course is a very fast moving course. In the regular semester, we finish one to 2 sections per lecture. No calculator of any kind is allowed in this course.

A suitable score in the math placement test or a transfer credit for the pre requisite course from the previous institution is required to register in this course.