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

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Email</th>
<th>Course Format</th>
<th>Number of Credits</th>
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</thead>
<tbody>
<tr>
<td>Raji Baradwaj</td>
<td><a href="mailto:Raji@umbc.edu">Raji@umbc.edu</a></td>
<td>Lecture, Discussion</td>
<td>4</td>
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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.