



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

Math 159/Trigonometry and Analytical Geometry

Course Information

Division	Science/Mathematics
Contact Hours	45
Total Credits	3 (three)
Prerequisites	A grade of C or better in MATH 157

Course Description

This course covers the topics of circular functions, trigonometric functions, inverse trigonometric functions, trigonometric identities, conic sections, polar coordinates, sequences and induction. The purpose of this course is to teach students trigonometry and conic sections so that the students will have the prerequisites needed for the study of calculus. MATH 159 is a continuation of MATH 157. MATH 157 and MATH 159 are the equivalent of MATH 164.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. solve higher degree polynomial equations using complex numbers;
2. find the summation of all terms of the n^{th} term of binomial expansion;
3. graph the trigonometric functions;
4. solve equations involving trigonometric functions;
5. identify and evaluate the principal values of the conic sections;
6. transform a polynomial function or conic section by translation or rotation of axes.

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