

Common Course Outline

MATH 103

Introduction to Trigonometry

1.5 semester hours

The Community College of Baltimore County

Description

Introduction to Trigonometry

Covers right triangle trigonometry with applications, an introduction to the unit circle definition of the trigonometric functions, solutions of oblique triangles, functions of special angles, basic identities, and algebraic manipulation of trigonometric expressions.

Prerequisite: MATH 083 or LVM3 and RDNG 051 or LVR 1 or LVR 2

Overall Course Objectives

Upon completion of this course the student will be able to:

- Define angle;
- Use the degree-minute-second (dms) system of measuring angles;
- Use radian to measure angles;
- Convert the measure of an angle from one system to the other;
- Define the various types of triangles;
- Solve right triangles;
- Define the trig functions based on understanding the unit circle;
- Evaluate the exact and approximate trig values for the special angles;
- Solve arbitrary triangles by the Law of Sines;
- Solve arbitrary triangles by the Law of Cosines;
- Apply the quotient relationships to prove trig identities;
- Apply the Pythagorean relationships to prove trig identities

Course Requirements: A scientific calculator is required for this course.

Grading/exams: the individual faculty member will determine grading procedures.

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information: This course, together with MATH 102, provides the prerequisite skills for MATH 165.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

(8) Date Revised: 02/28/00