



Wayne County Community College District

COURSE SYLLABUS

MAT 156 Trigonometry

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

In this course the translation of functions is reviewed. New topics include the study and graphing of trigonometric functions, inverse trigonometric functions, right triangle trigonometry, trigonometric identities and equations, the Laws of Sines and Cosines with applications, and Polar Coordinates are introduced.

EXPECTED COMPETENCIES:

Upon successfully completing this course, the student will be able to:

- Graph Functions
- Explain/Discuss Angles & Arcs, Graph Trig Functions
- Prove Trigonometric Identities.
- Solve problems Using Laws of Sines and Cosines:
- Solve Complex Number Problems
- Solve problems involving graphs of circular Functions.
- Solve problems involving Inverse Functions & Trigonometric Equations.
- Model and solve application problems involving Harmonic Motion.
- Should have a working knowledge of Polar Coordinates and Vectors

PREREQUISITES: MAT 155 or by placement

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E