

MATH& 142 : Precalculus II

Credits 5

Quarter Offered Winter, Spring

Conic sections; trigonometric functions; identities; inverse trigonometric functions; trigonometric equations; solutions of right triangles; laws of sines and cosines; vectors; polar coordinates; and complex numbers. This class may include students from multiple sections. (Quantitative Skills, Natural Sciences, Elective)

Prerequisites

2.0 or higher in [MATH& 141](#) or equivalent

Course Outcomes

Students who successfully complete this class should be able to:

- Evaluate, analyze and graph trigonometric and inverse trigonometric functions.
- Apply the triangular and circular definitions of the trigonometric functions.
- Verify and apply trigonometric identities.
- Solve trigonometric equations.
- Analyze and graph conic sections, parametric equations, and polar equations.
- Graph and perform basic operations with vectors.
- Solve application problems.