

PRE-CALCULUS

Requirement area: **Math or Elective**

Course code: MMA350 CHS-(MATH&141/142)

Grade Level: 9, 10, 11, 12

Prerequisite: Completion of Honors Algebra 2 or Algebra 3 (A or B recommended) or teacher recommendation

Length: Year long (1.0 credit)

Homework: 2 to 3 hours per week

Designators: NCAA, CHS

Description: This course is for students intending to take Calculus in high school or college. Students will strengthen their understanding of the concepts introduced in Algebra 2 and learn to use various combinations of skills to solve complex problems. First semester topics include an exploration of functions and their graphs; right triangle trigonometry; the derivation of the unit circle and uses of trigonometric identities. Second semester topics include additional trigonometry including Law of Sines and Cosines; vectors; systems of equations/inequalities; matrices and determinants; sequences, series, and probability; and an introduction to conics.