

**MATHEMATICS DEPARTMENT**

**PRECALCULUS**

**COURSE NO.: 04480**

**LENGTH: 40 WKS.**

**GRADE LEVEL: 11 – 12**

**CREDITS: 1**

**PREREQUISITES:** Teacher recommendation and a grade of 75 or better in Math III.

**COURSE DESCRIPTION & OBJECTIVES:**

Precalculus presents the prerequisite topics for calculus. It is intended for the college-bound senior planning to study calculus and higher level mathematics or the junior planning to study AP calculus his/her senior year. Topics include real number, the cartesian coordinate system, functions, graphing techniques, polynomial functions, circular functions, trigonometric functions, second degree relations, transcendental functions, inverse functions, matrices, sequences and series and limits of functions. Optional topics will include an introduction to derivatives and related topics.

**INSTRUCTIONAL PROCESSES & MATERIALS:**

Daily lectures, demonstrations, student assignments, review and testing make up the instructional process.

Computer software demonstrations will be used when appropriate. Students are expected to display an increased level of commitment to the work required in this course.

**COURSE REQUIREMENTS & EVALUATIVE CRITERIA:**

- Students are evaluated on the basis of quizzes, tests and a final examination.
- Homework, attendance and participation in class activities are also considered in the evaluation process.