

G. MATHEMATICS

MAC 1140, Precalculus Algebra: (*Prerequisite: MAC 1105 with a "C" or better or equivalent.*) An in depth course in algebra which provides the algebra skills necessary for calculus. Topics include properties and graphs of polynomial, rational and other algebraic functions; polynomial and rational inequalities; exponential and logarithmic functions, their properties and graphs; piecewise defined functions, conic sections; matrices and determinants; sequences and series, mathematical induction; the binomial theorem; applications.

MATHEMATICS SERVICE LEARNING OPTION

You may replace one of your lowest test grades with a **100%** by volunteering 20 hours of service within our community. There is no better way to increase your understanding of major mathematical concepts than to teach and explain it to someone else. The public schools and surrounding community desperately need volunteers. Teachers often have oversized classes and it is sometimes difficult for students to get individualized help in a class of 30 or more students. **YOU CAN MAKE A DIFFERENCE!** Research shows that helping others is good for your heart and mind; it strengthens your immune system. It helps improve your self-image and confidence. It can help develop life skills and occupational training.

It is an excellent way to develop career exploration and a major. It may even be a way of getting your foot in the door for future employment opportunities. It will definitely be an eye opener! You will do this through the Center for Service Learning. The Center will make the placement and conduct the record keeping. **The number of hours volunteered now appears on your college transcripts.** For purposes of this class, the following options are available:

- 1) Tutor mathematics students in any area high school or junior high school. Tutoring Pre-Algebra, Algebra I or II, or any advanced classes is required to replace one of your lowest test scores.
- 2) Tutor algebra in adult education classes.

THE DEADLINE FOR APPLYING FOR THE PROGRAM IS THE TENTH WEEK OF CLASS.