

COURSE NUMBER:	608
COURSE TITLE:	Probability and Statistics
COURSE LENGTH:	One semester, one credit
PREREQUISITE:	Successful completion of Algebra II
GRADE LEVEL:	10, 11, or 12
WHEN OFFERED:	Every other year (Will be available in 2005-06 school year)

COURSE DESCRIPTION:

Probability and Statistics is designed for those students who plan to enter such fields as economics, business, education, psychology, sociology, biology, medicine, mathematics, physical science or the engineering sciences. All of these areas of study now require statistics for their effective pursuit. Successful completion of this course will provide adequate preparation for the usual college courses offered in these disciplines.

COURSE RATIONALE:

The ability of computers to store and analyze information has made statistics an increasingly important subject to know. Statistics are used by people who work in government or journalism, who have to make decisions in business, who need to analyze or interpret the results of medical or psychological studies, or who wish simply to understand the world. Even if you never take a course in mathematics itself in college, you are likely to encounter many of the ideas you see here in further courses and in your daily life.

METHOD OF INSTRUCTION:

This class is a lecture-discussion type of course with student participation encouraged. Homework assignments will be given daily.

ASSESSMENT:

Grades will be based upon student performance on tests, quizzes, and assignments.

CRITICAL OBJECTIVES:

1. be able to decide whether important decisions are being made in a reasonable way
2. be able to understand the logic behind statistical reasoning by providing methods to help us make sense of data.
3. improve and maintain previous math skills
4. learn to use a graphing calculator as a tool for problem solving
5. understand the process involved in making informed decisions and assess the risk of wrong choices
6. be prepared for future studies in mathematics.

