NUMBER SYSTEMS

COURSE DESCRIPTION: Sets, relations, equivalence classes, algorithms for operations with numbers, prime numbers, ratios, other number systems, applications, elementary number theory, problem solving, systems of measurement including the metric system. Recommended for Liberal Studies majors.

OBJECTIVES:
Students will be able to:
- perform the four basic operations to numbers in bases other than ten.
- perform operations on both rational and real numbers.
- be able to solve word problems using a variety of techniques.
- be able to derive and apply geometric formulas.
- perform rules of divisibility including Euclid's Algorithm

ATTENDANCE: Students are expected to attend all class meetings, be on time, and be in class the <u>entire</u> class session. The only excused absence is one due to a school-related activity or a requirement to appear in court. Calling to tell me you are going to be absent does *not* excuse you from being absent. **Three (3) absences** may result in a drop from the course. However, if you decide to drop the course, it is **your** responsibility to make the drop official in the Admissions and Records office or else possibly receive a grade of **F**.

NOTE: The drop deadline date is **FRIDAY, MARCH 10, 2000!**

Attendance Grade: Each student will begin the semester with **twenty(20)** attendance points. Each absence will result in the loss of **four (4)** attendance points. If you are absent more than **five (5)** times, you will continue to lose four points per absence but now these points will be taken from other earned points, such as homework and projects. **If you leave class early you will lose two (2) attendance points!**

TARDIES: Students are expected to be on time. It is distracting, rude and unfair to fellow classmates and to the instructor when a student is late. **Two tardies will be counted as an absence, and each tardy will result in the loss of two (2) attendance points.** You are responsible for telling me, *at the end of class,* that you were tardy. If you do not tell me of your tardy, you risk losing four attendance points (an absence) instead of just two points (a tardy).

CLASSROOM PRESENTATIONS: How much you get out of this class will really depend on how much you contribute to the class. Much of this class will involve working in groups and presenting work to the rest of the class. Each time you (or your group) presents to the class you can earn up to 10 points, with a maximum of 80 total points for the semester.

OUT-OF-CLASS PROJECTS: There will be five (5) projects assigned which will involve out-of-class research. The first four projects will be worth fifty points each and the final one will be worth 100 points for a total of 300 points for the semester.

IN-CLASS ACTIVITIES AND WORKSHEETS: Each activity/worksheet given in class will be worth ten (10) points. No late work will be accepted, NO EXCEPTIONS! This component is worth 200 points for the semester.

FINAL EXAM: A two hour comprehensive final exam worth 100 points will be given at the end of the semester during finals week. This final exam is optional and may be used to replace a low project score but may _not_ be used to replace the in-class activities or attendance grades.

GRADING:
- All your in-class activity scores will be added up and divided by the total possible homework points for the semester. This will give you a percentage between 1 and 100 for activity work. You will receive _that percentage_ of the total 200 possible activity points.
- All five of your project grades will be added up. This will give your total project score as a number between 1 and 300. [Remember: your final exam score can be used to replace a low or missed project.]
- Your participation, activity, project and attendance points will be added up and divided by 600 (total possible points for the semester). This will give what percentage of the total possible points you have earned this semester. The following grading scale will then determine your grade:

Percent of Total Possible	Grade
89 - 100	A
78 - 88	B
65 - 77	C
55 - 64	D

Important Dates:
January 17, 2000 – Martin Luther King Holiday
January 28, 2000 – Last day to register or add a class
February 18 and 21, 2000 – President's Day Holidays
March 10, 2000 – Last day to drop
April 17 – 21, 2000 – Spring Break