

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course #: Math 1319(13908)

Course Title: Mathematics in the Modern World

Credit Hrs. : 3

Term: Fall 2009

Course Meeting & Location: MW 1:30 - 2:50, LART 319

Prerequisite Courses: Adequate score on placement exam or successful completion of MATH 0311

Instructor: Greg Allison

Office Location: Bell Hall 144

Contact Information: gallison@utep.edu, 747 - 6773

Office Hours: M 11:00 - 1:00; T 10:00 - 12:00, 1:30 - 2:30; Th 1:30 - 2:30.

Textbook(s), Materials: Required: The Heart of Mathematics: An Invitation to Effective Thinking, Second Edition, by Edward B. Burger and Michael Starbird.

Recommended: It will be useful for you to have a scientific calculator with a combinations function.

Course Objectives: The purpose of this course is to have students work with significant, yet accessible, mathematics, with the goal of having students develop better mathematical understandings and skills, so that students will be able to apply mathematical thinking in and outside of mathematics.

Course Activities/Assignments: Course activities will include classroom activities, out-of-class assignments, weekly problems, and a final exam.

Assessment of Course Objectives: In-class activities and out-of class

assignments will be assessed for completion; weekly problems will be scored for correctness and it is expected that students will re-work, and re-submit, incorrect answers; the final exam will be scored for correctness.

Grading Policy: Grades will be assigned on a standard scale:

>89%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
< 60%	F

Grades will be calculated using the following weights:

Classwork	20%
Assignments	20%
Weekly Problems	50%
Final Exam	10%

Make-up Policy: Late work will be grudgingly accepted. Missed classwork will not be made up; it can be excused with sufficient documentation of the absence.

Attendance Policy: Attendance is expected and required. Tardiness and/or unexcused absences will result in poor classwork grades, leading to a low overall grade in the course.

Academic Integrity Policy: Acts of academic dishonesty will not be tolerated in this class. Lapses in academic integrity will be referred to the Dean of Students, as required at <http://academics.utep.edu/Default.aspx?tabid=23785>.

Civility Statement: This course requires positive behaviors: Be on time and be focused on your work. Please do not distract yourself or others with telephones or music.

Disability Statement: If a student has or suspects he/she has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions. Once this is done

the instructor in this course will happily comply with all requirements.

Military Statement: If you are a military student with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact me as soon as it appears that your service will interfere with this course. The instructor will work with you to ensure that your service will not adversely affect your academic progress.

Tentative Course Schedule:

August 24 - September 2: Introduction and Chapter 1

September 9 - September 16: Counting (Chapter 2, Section 1)

September 21 - September 23: Prime Numbers (Chapter 2, Section 3)

September 28 - September 30: Irrational Numbers (Chapter 2, Sections 6, 7)

October 5 - October 14: Infinities (Chapter 3, Sections 1 - 3, 5)

October 19 - November 9: Geometry and Surfaces (Chapter 4, Sections 1, 3 and 6; Chapter 5, Sections 1 - 3)

November 16 - December 2: Probability and Statistics (Chapter 7, Sections 1 - 6)

Final Exam: Wednesday, December 9, 4:00 - 6:45