Course #: MATH 3319 (CRN 14358)
Course Title: Elementary Number Theory
Credit Hrs: 3
Term: Fall 2009
Course Meetings & Location: MW 1:30-2:50 Bell Hall 130
Prerequisite Courses: MATH 1312
Course Fee: (if applicable) None
Instructor: Joe Guthrie
Office Location: Bell Hall 300
Contact Info:
Phone # 747-6755
E-mail address jguthrie@utep.edu
Fax # 747-6502
Emergency Contact 747-5761
Office Hours: Monday, Wednesday 10:30 – 11:20, 12:30- 1:20, and by appointment.

Textbook(s), Materials: Required: Burton, Elementary Number Theory, 6th Ed

Course Objectives (Learning Outcomes):
1. Students will become familiar with the fundamental results of Elementary Number Theory (highlights of the course include the Fermat’s Little Theorem, Wilson’s Theorem, and Euler’s Theorem).
2. Students will thoroughly understand the definitions of the basic concepts of Number Theory such as divisibility, primes, and congruences.
3. Students will be able to apply definitions and theorems in Number Theory.
4. Students will continue to develop their ability to use the method of proof to establish the fundamental results in Number Theory.
5. Students will employ effective strategies to decide the truth or falsity of mathematical propositions.
6. Students will be able to write down proofs in a clear, concise manner using correct English and mathematical grammar.
7. Students will be able to present and defend a proof to a group of their peers.

Course Activities/Assignments: Homework will be assigned each class day and discussed at the next class meeting. Students will be expected to give solutions at the board and will be assigned a grade for participation. Selected assignments also will be collected and graded.

Assessment of Course Objectives: Exams: There will be two mid-term in class exam as well as a final exam.
Course Schedule: The last day to drop with an automatic W is Friday October 30. The final exam will cover the entire course and will be held Wednesday, December 9 from 4:00 p.m. to 6:45 p.m.

Grading Policy: At the end of the semester, you will have percentage scores for your homework and for your mid-term and final exams. The homework and class participation will count 15%, each mid-term exam will count 25%, and the final exam will count 35% toward your course average. Grades will then be assigned according to:

A: 90-100%    B: 80-89%    C: 70-79%    D: 60-769%    F: 0-59%.

If you have problems with the course material, need to be absent for an exam, or have any other circumstances that may affect your performance in the course, contact me by phone or email as soon as possible.

Make-up Policy: Makeup exams will be given only in extraordinary and unavoidable circumstances and with advance notice to me by phone or email.

Attendance Policy: Prompt attendance at all class meetings is expected.

Academic Integrity Policy: You are expected to conform to the UTEP policy on integrity. See http://academics.utep.edu/Default.aspx?tabid=23785.

Civility Statement: You are expected to devote class time entirely to the task at hand and not engage in other activities such as talking, using cell phones, or working on assignments for other courses.

Disability Statement: If you have or suspect you have a disability and need an accommodation, you should contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. You are responsible for presenting to me any DSS accommodation letters and instructions.

Military Statement: If you are a student with the potential of being called to military service or training during the semester, please let me know during the first week of classes and then contact me as soon as possible if you do receive such an assignment.