Department of Mathematics and Statistics, University of Victoria
September - December 2015

MATHEMATICS 362 (ELEMENTARY NUMBER THEORY) SECTION A01 [CRN 12254] COURSE OUTLINE

Instructor: Dr. Heath Emerson
Office: David Turpin Building (formerly SSM building) A447
Phone: 250-721-7462
E-mail: hemerson@uvic.ca
Lecture Hours: Mondays and Thursdays 1:00 - 2:20 PM.
Location: Clearihue A202
Office Hours: Wednesdays 1:30-2:30 and Friday 11:30-12;30

PREREQUISITES One of 122, 212 or 233C, <u>and</u> 3.0 units or more of 200-level Math or Stat courses

TEXT

Dudley, Underwood **Elementary Number Theory**, **2nd** Edition.

SYLLABUS

This course is an introduction to the mathematical theory of numbers. We will cover topics such as divisibility and unique factorization of integers, congruence arithmetic, quadratic reciprocity, sums of squares, and the structure of the set of prime numbers.

EXAMINATIONS AND GRADING

Calculators will NOT be permitted in the examination room for the midterm tests or the final examination. There will be 4 assignments, due

Oct. 5, Nov. 2, Nov. 16, Nov. 26. Assignments will be handed in at the beginning of the class. The assignments will be posted on the course website http://www.math.uvic.ca/courses/2015f/math362/a01/index.html. There will be an in-class midterm test on Oct. 19, and a three hour final examination scheduled by the University. Your final grade will be determined as follows: assignments will be worth 30 %, the midterm 20 % and the final exam 50 %.

Off-schedule Final Examinations are not given except in accordance with the regulations on *Illness, Accident or Family Affliction at Exam Time* in the U.Vic. Calendar. Deferred status is granted only for Final Examinations. If you have a legitimate reason for failing to hand in an assignment, then then your performance on the rest of the term's work, not including the final examination, will be used to compute a numerical score for the missed assignment. If you miss the midterm, you will be assigned a score for it which is the average of your score on assignments and your score on the final exam. There will be no make-up midterms. Your grade will be determined by assigning 40% credit to the midterms, 10% to the assignments and 50% credit to the final examination.

UNDERGRADUATE LINK

You MUST READ the following information, which outlines the new University-wide grading table, academic integrity, attendance, calculators, Assistance Centre,

and other important topics:

http://www.uvic.ca/science/math-statistics/undergraduate/course-policies/index.php