

**Instructor:** Dragos Ghioca, Math Annex 1223, dghioca@math.ubc.ca.

**Course webpage:** <http://www.math.ubc.ca/~dghioca/courses/537.html>

**Office hours:** M 11-12, Tu 10:30-12, W 12-1, Th 1-2:30.

**Course outline:** Section numbers below refer to the textbook.

Chapter 1: Divisibility, primes.

Chapter 2: Congruences, Chinese Remainder Theorem, Number Theory from an Algebraic Viewpoint.

Chapter 3: Quadratic Residues, Quadratic Reciprocity, Sums of squares.

Chapter 4: Arithmetic functions.

Chapter 5: Diophantine equations.

Other topics: Polynomially recurrence sequences, Algebraic Numbers.

**Text:** Introduction to the Theory of Numbers, 5th edition, by Niven.

**Evaluation:** The final mark will be based on homeworks, usually assigned every other week.

**WebCT:** Your homework marks will be posted on Connect UBC.

**Policies:** Missing an assignment will normally result in a mark of zero. Exceptions may be granted in two cases: **prior consent** of the instructor or a **medical emergency**. In the latter case, the instructor must be notified as soon as possible (preferably before the homework is due), and presented with a doctor's note immediately upon the student's return to UBC. When an exception is granted for the missed homework, there is no make-up assignment; the other homework scores will be used for the final grade. When two homeworks are missed with proper justification and documentation, then the student will have to write a final exam to make up for the missed homeworks.

**The Instructor reserves the right to change the present course outline at any time during the semester.**