

Department of Mathematics and Statistics
Dr. R.A. Mollin

PMAT 427: L01, MWF @ 12:00 in MS 431

Prerequisite: Pure Mathematics 315 or consent of the Division.

Required Text: Fundamental Number Theory with Applications, SECOND EDITION, R.A. Mollin, Chapman & Hall/CRC Press, Taylor and Francis Group, Boca Raton, New York, London, Tokyo (2008), ISBN#: 1-4200-6659-5.

Syllabus

Topics

Chapter One — Arithmetic of the Integers

Chapter Two — Modular Arithmetic

Chapter Three — Primitive Roots

Chapter Four — Quadratic Residues

Chapter Five — Continued Fractions

Chapter Six — Additivity

Chapter Seven—Diophantine Equations.

Tutorials: Tutorials are held each Thursday at 13:00 in ST 057.

Grading: There will be 5 in-tutorial tests worth 10% each, and a final exam worth 50%. There will be no mid-term. The following schedule, applies for the exams and tests:

TEST#	Date	Place	Time
1	September 25	ST 057	13:00
2	October 9	ST 057	13:00
3	October 23	ST 057	13:00
4	November 6	ST 057	13:00
5	November 20	ST 057	13:00

Note that there is no tutorials on Sept. 11th or 18th.