

COURSE INFORMATION SHEET
FALL 2007

1. **Course:** PURE MATHEMATICS 427 -- Number Theory
Lecture/Time: L01 MWF 12:00
Instructor: Dr. R.A. Mollin
Office/Phone/Email: MS 588 220-7196 ramollin@math.ucalgary.ca
2. **Prerequisites:** Pure Mathematics 315 or consent of the Division.
NOTE: The Faculty of Science policy on pre- and co-requisite checking is outlined in the current University Calendar (see www.ucalgary.ca/pubs/calendar) *Faculty of Science, section 5C*. **It is the students' responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.**
3. **Fee policy:** After the last day to drop/add courses, there will be no refund of tuition fees if a student withdraws from a course, courses or the session.
4. **Academic Accommodations:** It is the student's responsibility to request academic accommodations. A student with a documented disability who may require academic accommodation must register with the Disability Resource Centre to be eligible for formal academic accommodation. DRC registered students are required to discuss their needs with the instructor no later than fourteen (14) days after the start of this course.
5. **The University policy on grading and related matters** is described in the current University Calendar, *Academic Standings*. In determining the overall grade in the course, the following weights will be used:

<i>Quizzes</i>	[5]	50%
<i>Final Exam</i>		50%

A passing grade on any particular component of the course is essential to passing the course as a whole. There will be a final examination scheduled by the Registrar's Office. *** The use of aids such as open book, etc. **is not** permitted.
6. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are outlined in the current University Calendar, *Faculty of Science, section 6A*. It is the student's responsibility to familiarize herself/himself with these regulations.
7. **Academic misconduct** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the current University Calendar. See: <http://www.ucalgary.ca/honesty/>
8. **Dates and times of class exercises held outside of class hours (evening tests, Saturday laboratory examinations, weekend field trips, etc.):**

****THERE WILL BE NO OUT-OF-CLASS-TIME ACTIVITY.****

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME ACTIVITY. If you have a conflict with this out of class time activity, please inform your instructor at least one week in advance of the activity so that other arrangements may be made for you.

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,
R.A. Mollin, Chapman & Hall/CRC Press, Boca Raton, New York, London,
Tokyo (1998).

Syllabus

Topics

Chapter One — Arithmetic of the Integers
Chapter Two — Congruences
Chapter Three — Primitive Roots
Chapter Four — Quadratic Residues
Chapter Five — Continued Fractions
Chapter Six — 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 27	ST 057	13:00
2	October 11	ST 057	13:00
3	October 25	ST 057	13:00
4	November 8	ST 057	13:00
5	November 22	ST 057	13:00

Note that there is no tutorials on Sept. 13th or 20th.