

Mathematics 325
Fall, 2010

- Instructor:** James Preen (email: james_preen@cbu.ca, phone 563 1181)
- Office:** A-129A (first floor, A-wing, at the bottom of the ramp)
- Office Hours:** Monday to Thursday 2.20pm to 4pm.
- Class meetings:** Tuesdays and Thursdays 1pm to 2.15pm in B208.
- Grading:** There will be take-home assignments following each section.

Skeleton notes, past exams, questions and handouts for the course are available on the web at <http://faculty.capebretonu.ca/jpreen/math325.html> and extra questions may be assigned or requested at any point in the course. Students are encouraged to ask for clarification on the material both during and after classes. Academic regulations concerning penalties for plagiarizing and cheating (pp. 27-28 of the academic calendar) will be rigidly enforced in this course.

Major Topics:

- Divisibility and Prime Numbers
- Congruences and Cryptography
- Number theoretic functions
- Quadratics and Continued Fractions
- Base Arithmetic, Factorisation