

Mathematics 3207
Autumn, 2018/19

- 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:** Tuesday and Thursday 10:00 to 11:15 or by appointment.
- Class meetings:** Tuesdays and Thursdays 08:40 to 09:55 in CE261.
- Grading:** There will be 5 take-home assignments equally spaced through term.

Skeleton notes, past exams, questions and handouts for the course are available on the web at <http://faculty.capecbretonu.ca/jpreen/math3207.html>

The use of electronic devices in class is allowed, boards can be photographed, explanations can be recorded and Maple will be regularly used and worksheets will be available for copying or download. Students are encouraged to ask for clarification on the material both during and after classes. Class will only be cancelled if campus is closed.

Academic regulations concerning penalties for plagiarism and cheating (page 38 of the university calendar) will be rigidly enforced in this course. Differently-abled students will be accommodated using the JKAC. There will be no final or supplemental exam for the course.

Major Topics:

Base Arithmetic, Divisibility and Prime Numbers

Congruences and Cryptography

Number theoretic functions

Quadratic and higher power congruences

Continued Fractions and advanced Factorisation