

**Mathematics 3205**  
**Fall, 2011-2012**

- 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:** before or after my classes, or by appointment
- Class meetings:** 1pm, Tuesdays in B226, Thursdays in A131
- Grading:** There will be take-home assignments following each section.

Past exams, questions and handouts for the course are available on the web at  
<http://faculty.capebretonu.ca/jpreen/math315.html>

Students are encouraged to ask for clarification on the material both during and after classes. Academic regulations concerning penalties for plagiarizing and cheating (pp. 39-40 of the academic calendar) will be rigidly enforced in this course.

**Major Topics:**

- Counting and Combinatorial Proof
- Generating Functions
- Ramsey Theory
- Graph Polynomials
- Codes and Combinatorics of Words