

**Mathematics 205**  
**Fall, 2009**

<b>Instructor:</b>	James Preen (email: james_preen@cbu.ca, phone 563 1181)
<b>Office:</b>	A-129A (first floor, A-wing, at the bottom of the ramp)
<b>Office Hours:</b>	after my classes until around noon, or by appointment
<b>Class meetings:</b>	Monday 2.30, Wednesday 2.30 (room CE327)
<b>Textbook (optional):</b>	any introductory discrete mathematics book For Math and Computer Science students: Discrete and Combinatorial Mathematics: Ralph P. Grimaldi
<b>Grading:</b>	Mid-term test                    20% Assignments, Tests            40% Final exam                        40%

There will be one **mid-term** test, held in class **about halfway through the course** and tests will be given following completion of each section of the course. The final exam will be held during the regular examination period in December. All tests and exams will be **open-book**; any notes or books are allowed to be consulted during them.

Past exams, questions and handouts for the course's previous incarnation as Math105 are available on the web at <http://faculty.capebretonu.ca/jpreen/205/index.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 (as in the academic calendar) will be enforced in this course. A supplementary examination for the course will not be offered.

**Major Topics:**

- Sets, equivalence relations and functions
- Logic and proofs, including math induction
- Basic combinatorics
- Introduction to graph theory