

# Mathematics 2101: Winter 2018/19

Instructor: James Preen

Office: A-129A (first floor, A-wing, at the bottom of the ramp)

Office Hours: After class, on Wednesdays and/or by appointment

Class meetings: Lectures: Tuesdays and Thursdays 11:30 - 12:45 in Room CE319  
Lab: Wednesdays at 08:40-09:55 in Room CE319

Textbook : Levin: Discrete Mathematics, An Open Introduction

	Tests/Assignments	40%
Grading:	Mid-term test	20%
	Final exam	40%

There will be one mid-term test, held in class sometime in February. The Final exam will be held during the regular examination period in April. Upon completion of each section of the course some sort of test or assignment will be given. I am open to making the tests all take-home, we will discuss this in class in the first week. All tests including the final examination will be “open-book” in that any material at hand can be consulted during the test but no collaboration or other outside assistance is allowed. Past tests and exams are available on the course website:  
<http://faculty.capebretonu.ca/jpreen/2101/index.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. A supplemental exam for the course will not be made available.

## Major Topics:

- Sets, relations and functions
- Logic and proofs, including mathematical induction
- Introductory combinatorics and graph theory
- Research methods