MA238 Midterm Information
Thursday, February 25, in class.
The midterm will be **written from the tutorial MyLS page** and submitted to the **tutorial Gradescope page**.

You can start the exam as early as 9:45. You need to be finished all the checks and actually working on the exam by 10:15 and you will be locked out of the test.
You will have 10 minutes after the test finishes to take photos/scan your test, make a single PDF and upload to Gradescope.

If you have any technical problems during the exam, email examquestions@wlu.ca
If you make a simple mistake such as clicking "submit" before you have completed the test, I can help. kcameron@wlu.ca

8 questions, some with several parts
60 marks
90 minutes
No aids allowed – **no calculators** – you can leave answers in the form $2^7 + (3)(8) - 32$

You will write your answers on a 5-page template which is posted and has been emailed to you. You will need to print or copy this out.
The cover page has a declaration. You do not need to print the cover page, but you must sign the first page of the template indicating that you agree to the declaration.
You are allowed the 5 answer pages and **5 pieces of scrap paper**. You can use the scrap paper for answers if needed.

The test covers MODULES (1) through (9.2) and a little on Graph Colouring (10.0)
These modules are in Graph Theory A and Graph Theory B

Approximate Breakdown by Type of Question

Draw graphs with certain properties or types of graphs	8
Mechanical	14
Short answer	9
State theorem	9
Give reason or give explanation	6
Proofs	11
Modelling	3

- Mechanical means doing some calculation – like calculating the number of edges of a graph, or given an adjacency matrix, draw the graph, or vise versa, or give an Euler circuit in a graph, or find an isomorphism, or determine whether a graph is planar, etc. It could be a calculation that is part of an explanation.
- Short answer means the answer is a word or one sentence, and includes definitions.
- The proofs are ones you have seen.