MAT332 - Fall 2016

Instructor: Geoffrey Scott

Office and email: Bahen Center 6256, gscott@math.toronto.edu

Office Hours: Tuesday, 5-6pm in my office. Also by appointment (email me to set up a time)

Assistant: Mykola Matviichuk

Office and email: Bahen Center 6135, mykola.matviichuk@mail.utoronto.ca

Office Hours: To be announced.

- **Topics covered:** According to the official syllabus, this course covers: Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. Participants will be encouraged to use these topics and execute applications to such problems as timetabling, tournament scheduling, experimental design and finite geometries. We may end up covering fewer or more topics than this, as time allows. Prerequisite: MAT224H1/MAT247H1
- **Text:** Introduction to Graph Theory by West. You might also find helpful A Walk Through Combinatorics by Bola, Graph Theory by Diestel, and Graph Theory with Applications by Bondy and Murty.
- Course Web Site: http://www.math.toronto.edu/gscott/teaching.html
- **Homework:** There will be six homework assignments. Homework is will be collected at the start of class on the day it is due. No homework will be accepted later than 15 minutes after the hour that class starts (e.g. if the homework is due on Tuesday, it will not be accepted after 2:15).

You may work with others on homework to share ideas, but make sure you personally understand all the solutions you submit and that you write all your homework solutions yourself.

Tests: There will be one midterm test which will be 110 minutes long, and one cumulative final exam which will be three hours long.

If you know in advance that you must be absent on a test day, contact me at least one week in advance and I will try to accommodate your situation.

If you cannot show up for a test because of illness, you must submit the official UofT medical certificate. Arrangements for a make-up exam will be made on a case-by-case basis for students who have missed a test because of illness or any other (approved) legitimate reason. Students should beware that make-up exams that I write tend to be slightly more difficult than the regularly-scheduled exams to account for the extra time that the student has to prepare.

Grading: Your final grade is calculated in the following way:

30% Homework30% Midterm test (Tuesday October 25)40% Cumulative final exam

If you find a grading mistake in an assignment or exam, arrange a meeting with me or Mykola to discuss it. Coursework written in pencil will not be considered for remarking.

Class Policies: Don't be distracting. This means:

Do not use cell phones or laptops during class.

I will not be grading based on attendance, but you will gain the most from this course if you regularly attend class and actively participate.

Students should become familiar with and are expected to adhere to the Code of Behaviour on Academic Matters which can be found at:

http://www.governingcouncil.utoronto.ca/policies/behaveac.htm

[Note: Any student with a documented disability should contact me as soon as possible so we can make arrangements to fit your needs.]

I look forward to having you in class!