

MAT475 COURSE OUTLINE

1. COURSE DESCRIPTION

Problem solving is an essential aspect of mathematics, and one which can become neglected when faced with the enormous task of assimilating the undergraduate mathematics curriculum. The purpose of this course is to introduce students to various methods of problem solving. We will cover problems that are relatively elementary yet require a great deal of creativity to solve, which can be developed through systematic training.

2. FORMAT

The class will be highly interactive, as the whole point is to practise solving problems! Each week a new topic will be introduced and several practise problems will be taken up on the board by me, with help from the students. Then students will split up into groups and work on problems. Students will also practise writing up solutions and grading them for each other. Expect plenty of class presentations! Being forced to talk through your thoughts is a great way to improve your problem-solving abilities.

3. GENERAL INFORMATION

3.1. **Class Location and Time.** Tuesday 12-1 , Thursday 12-2 in AP120.

3.2. **Office Hours.** Tuesday 1-2 HU1001B

3.3. **Teaching Assistant.** TBA

3.4. **Contact Information.** My e-mail is jacobt@math.toronto.edu

4. MARKING SCHEME AND ASSIGNMENTS

There will be one term test (30% of the total grade) and a final exam (40%), as well as 6 homework assignments (30%) of which the lowest one will be dropped. **If you miss the term test, your grade will be replaced by your grade for the final exam**

The term test will be held in class on **October 17, 2019**.