MACM 101 — Discrete Mathematics I

Fall 2014

Instructor: Andrei Bulatov, email: abulatov@sfu.ca

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Learning resourses:

- **Prerequisites:** BC High School Math 12, or MATH100
- **Lectures:** MoWe 10:30–11:20am, in C 9002
  Fr 10:30–11:20pm, in EDB 7618
- **Course Text:** *Discrete and Combinatorial Mathematics (an Applied Introduction)* by Ralph P. Grimaldi, Addison-Wesley, : 5th edition, 2004
- **References:**

  – Discrete Mathematics and Its Applications, K. H. Rosen, McGraw Hill: 7th edition, 2011
- **Instructor's office hours:** We 14:00–16:00 (starting from Sep 10th)
  Mo 14:00–16:00 (starting from Sep 22nd) in TASC 8013,
  or by appointment
- **Assignments:** 5 sets of exercises, solutions to the first one are due Friday, September 26
- **TA's office hours:** TBA
- **Tutorials:** TUT D101 Mo 9:30 – 10:20 RCB 6101
  TUT D102 Mo 11:30 – 12:20 RCB 7101
  TUT D103 Mo 12:30 – 13:20 RCB 7101
  TUT D104 Mo 13:30 – 14:20 AQ 5008
  TUT D105 We 13:30 – 14:20 AQ 5006
  TUT D106 We 14:30 – 15:20 AQ 5005
  TUT D107 We 15:30 – 16:20 AQ 5030
  TUT D108 We 12:30 – 13:20 BLU 10901

Course web page: www.cs.sfu.ca/CourseCentral/101.MACM/abulatov
Please refer to this page regularily for important information related to the course.

Course Outline: This course is an introduction to discrete mathematics. The course will focus on establishing basic principles and motivate the relevance of those principles by providing examples of applications in Computing Science.

Topics to be covered:

- Logic and Formal Reasoning
- Set Theory
- Functions and Relations
- Mathematical Induction
- Combinatorics
- Intergers
- Trees

Marking scheme:
5 homework assignments, worth 5% each,
2 midterms, worth 15%,
final exam, worth 35%, and
tutorial attendance (10 tutorials), worth 1% each.

Students must attain an overall passing grade on the weighted average of exams in the course in order to obtain a clear pass (C or better).

Academic Honesty: Academic Honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty are subject to disciplinary action by the School; serious infractions are dealt with in accordance with the Code of Academic Honesty (T10.02) (http://www.sfu.ca/policies/teaching/t10-02.htm). Students are encouraged to read the School's Statement on Intellectual Honesty (http://www.cs.sfu.ca/dean-gradstudies/honesty.html).