Course Outline

Instructor: Hovhannes Harutyunyan, office: EV 003.155, email: haruty@cs.concordia.ca
Classes: Tuesday, Thursday 10:15 - 11:30, Tutorials: Monday 11:45 - 13:35
Office hours: Tuesday 11:30 - 12:30 or by appointment, room EV 003.155

COURSE DESCRIPTION:
General principles of counting, permutations, combinations, identities, partitions, generating functions, Fibonacci numbers, Stirling numbers, Catalan numbers, principle of inclusion and exclusion. Graphs, subgraphs, isomorphism, Euler graphs, Hamilton paths and cycles, planar graphs, Kuratowskis theorem, trees, colouring, 5-colour theorem, matching, Halls theorem.

Graduate Attributes: Use mathematical knowledge and proof techniques to analyze problems related to computer science.


Course website: Please regularly consult the course website for supplementary material, assignments, important dates, and other information about the course.

Attendance: Students are responsible for making themselves acquainted with all materials presented in lectures and assigned for reading.

ASSIGNMENTS: Please submit your assignments to the ENCSs Electronic Assignment Submission (EAS) system: https://fis.encs.concordia.ca/eas/. You will need an ENCS username and password to login (go to H960 to pick up a user name and password).

MARKING SCHEME:
Assignments - 15%
Midterm Exam - 25% (second half of October)
Final Exam - 60%

In order to pass the course, a student must pass the term component (Assignments + Midterm) and the Final Exam component. Late assignments will be penalized 20% for each late day.

Prerequisite: COMP 232 or 18 credits in post-Cegep Mathematics.

Disclaimer: In the event of extraordinary circumstances beyond the Universitys control, the content and/or evaluation scheme in this course is subject to change.