Course Outline

Instructor: Hovhannes Harutyunyan, office: EV 003.155, email: haruty@cs.concordia.ca
Classes: Tuesday, Thursday 10:15 - 11:30, room FG B050
Tutorials: Monday 11:45 - 13:35, room H-562, Zhiyuan Li, email: l_zhiyua@encs.concordia.ca; room H-615, Nhat Linh Vu, email: linh_vn12@yahoo.com
Assignment marking: Zhiyuan Li, email: l_zhiyua@encs.concordia.ca
Office hours: Tuesday 14:30 - 15:30 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, Kuratowski’s theorem, trees, colouring, 5-colour theorem, matching, Hall’s 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 ENCS’s 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% (October 19, in class)
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 University’s control, the content and/or evaluation scheme in this course is subject to change.