

Badawi-MTH418-Syllabus

MTH 418, Spring 2024. MW: 11—12:15, Chem.227, Ayman Badawi, and Office Hours: Nab 262, from 13 to 14 MTWR; others are available by appointment. Email me at abadawi@aus.edu.

Three Exams: Exam 1 (22%, Feb 21, in class), Exam 2 (22%, March 27, in class), Exam 3 (22%, May 6, in class), and Final (34%, TBA): no make-up exams.

We will cover materials related to graphs and sub-graphs, connected and disconnected graphs, matrices, trees and girth, planar and nonplanar graphs, graph embedding, connectivity and edge connectivity, Hamiltonian graphs, matching, factorization and coverings, networks and applications to science and engineering.

Required: Badawi- Class- Notes, materials on I-Learn, essential notes, online textbook, and exams on the MTH 418 webpage: <https://www.ayman-badawi.com/MTH%20%20418.html>

$A \geq 93$, $89 \leq A^- < 93$, $86 \leq B^+ < 89$, $81 \leq B < 86$, $78 \leq B^- < 81$, $73 \leq C^+ < 78$,
 $68 \leq C < 73$, $62 \leq C^- < 68$, $50 \leq D < 62$, $F < 50$.

It is considered an academic integrity violation to represent the output of a generative artificial intelligence tool as your own work.