

Badawi-MTH320-Syllabus

MTH 320, Spring 2024. TR: 11—12:15, Phys. 109, 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 22, in class), Exam 2 (22%, March 28, in class), Exam 3 (22%, May 7, in class), and Final (34%, TBA): no make-up exams.

We will cover semi-groups, monoids, groups, permutation groups, cyclic groups, Lagrange's Theorem, subgroups, normal subgroups, quotient groups, (external) direct product of groups, homomorphism, and isomorphism theorems, Cayley's Theorem, and introduction to rings and fields. Details can be found on the official syllabus.

Required:

Badawi- Class- Notes, materials on I-Learn, essential old exams, notes, and a Textbook on the MTH 320 webpage: <https://ayman-badawi.com/MTH%20320.htm>

$A \geq 88$, $85 \leq A^- < 88$, $82 \leq B^+ < 85$, $78 \leq B < 82$, $75 \leq B^- < 78$, $71 \leq C^+ < 75$,
 $65 \leq C < 71$, $60 \leq C^- < 65$, $50 \leq D < 59$, $F < 50$.

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