

**Course Name:** MATH 343 – Group Theory

**Section:** 4084

**Lecture:** 1 3 5 (10:00 – 10:50) — Room A78

**Tutorial:** 2 (10:00 – 11:50) — Room A107

**Instructor:** Fahd M. Alshammari

**Contact Information:**

- Phone: 4676521
- Email: fmobarak@ksu.edu.sa
- Coordination can be done via email or phone

**Learning System:** LMS (Learning Management System)

**Textbook:** *Contemporary Abstract Algebra*, 10th Edition, Joseph A. Gallian

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**Course Topics**

- Groups, cyclic groups, subgroup definitions
  - Lagrange's Theorem, external direct product, isomorphism theorems
  - Homomorphisms, permutations, cycle notation, order of an element
  - Group actions, Cayley's theorem, simple groups
  - Classification of finite abelian groups, Sylow theorems and their applications
  - Direct computation, classification of groups of small order up to isomorphism
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**Grading Policy (Total = 100 Marks)**

Component	Weight	Date/Details
Homework & Assignments	10	Distributed across the semester
Quizzes	10	To be announced
Midterm 1	20	Wednesday, 01-10-2025 (12:00–1:30 PM)
Midterm 2	20	Monday, 17-11-2025 (10:00–11:30 AM)
Final Exam	40	01-07-1447H

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## General Instructions

- Try to use the midterm exam dates to coordinate with other exams.
  - If you cannot attend the midterm exam, you must provide an acceptable justification such as a medical report, official leave, or other valid reasons to be approved by the othersized department committee.
  - The topics covered in the midterm exam will be based on the lectures completed before the exam. Weekly tests and the final exam will cover all topics.
  - It is strongly recommended to discuss homework solutions with your classmates and seek help when necessary. However, the solutions must be written **individually and independently**. Copying directly from others will be considered cheating and will result in a grade of zero.
  - Homework must be submitted on time; otherwise, it will not be accepted, and no grades will be given.
  - Fairness will be maintained among students: there will be no special make-up exams or alternative assessments except in exceptional cases.
  - A student is not allowed to miss more than **25% of total lectures and tutorials**. Exceeding this percentage will result in deprivation from entering the final exam, and the student will automatically receive a failing grade (DN).
  - Students must attend lectures **on time before the start of class**. Attendance will be taken at the beginning and arriving more than twice late (by more than five minutes) will be considered equivalent to one absence.
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## Instructions During Lecture

- Mobile phones must be kept away and silent during the lecture.
  - Do not disturb your classmates with side conversations during the lecture.
  - If you have any questions during the lecture, feel free to ask without hesitation by rising your hand.
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**Wishing you all success and excellence.**