MATH 103A: Modern Algebra I (Fall 2021)

Location and Time: WLH 2205, MWF 10:00-10:50am.

Instructor: Andrew Suk, asuk@ucsd.edu

Office Hours: Mon/Wed 11am-noon, in-person or via Zoom. Also by appointment.

Course Website: Canvas.

Course Calendar: https://www.math.ucsd.edu/~asuk/math103af21.html

Course Assistants:

TBA. Office hours: TBA.

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Required Text: J. Fraleigh, N. Brand, A First Course in Abstract Algebra, 8th edition, Pearson, 2021.

Course Description: The aim of this course will be to cover Chapters 1-3. Topics include: Sets, binary relations, groups, subgroups, cyclic groups, and generating sets.

Prerequisites: Math 31CH or Math 109 or consent of instructor.

Grading: Version 1.

Homework (20%). Weekly assignments will be posted on Gradescope. Submit your work on Gradescope. Typed-up solutions are preferred but photographed/scanned copies are also acceptable. DO NOT email me your homework. Late homeworks will not be accepted.

Midterm Exam 1 on Friday October 22 (20%). In class.

Midterm Exam 2 on Friday November 19 (20%). In class.

Final Exam, TBA (40%).

Version 2. Homework (20%), best midterm (20%), final exam (60%).

Final Grade. At the end of the course, we will calculate both versions of your grade and give you the higher score. Letter grades will be decided and assigned accordingly at the end of the quarter.

Homework Policies: Discussing homework with others is OK. It is expected that everyone writes in his/her own words the homework solutions. Homework must be uploaded onto Gradescope by 11:00pm on the due date (Fridays). Typed up solutions are recommended. Scanned solutions are also acceptable: download a scanning app (i.e. Scannable,

CamScanner, etc.) and use your phone to scan your solutions. No points will be given to solutions that are not readable. Late homeworks will NOT be accepted. Lowest homework score will be dropped.

Exam Policies: You may use one 8.5 x 11-inch sheet of handwritten notes (both sides). No calculators or electronic devices may be used during the examinations. Bring your student ID to the exams. Eating is not allowed during exams.

Academic Integrity. Cheating will not be tolerated. See the link below for information on how to promote academic integrity and the consequences of cheating.

https://students.ucsd.edu/academics/academic-integrity/