

**MATH 100A SYLLABUS  
AUTUMN 2023**

**Lectures** TH 12:30-1:50, WLH 2205  
**Instructor** James M<sup>c</sup>Kernan, APM 6260, phone (858)-534-6347  
**Office Hours** T 2:30-4:30PM  
or by appointment, if you cannot make these times.  
**Teaching Assistant** Felipe Castellano-Macias, fcastellanomacias@ucsd.edu  
**Sections** W 5:00-5:50pm  
**Office Hours** W 1:00-3:00pm, HSS 5012  
**Teaching Assistant** Jacob Keller, jjkeller@ucsd.edu  
**Sections** W 4:00-4:50pm  
**Office Hours** W 11:00-1:00pm, HSS 4008  
**Text** *Abstract Algebra*, I. N. Herstein

See web site for some other suggestions.

**Exams, Final** Friday December 15th, 11:30-2:30pm, WLH 2205.

**Midterms** Thursday October 19th, Thursday November 16th.

**Grading** Homework 30%, Midterms 30%, Final 40%.

**Syllabus** First course in a rigorous three-quarter introduction to the methods and basic structures of higher algebra. Topics include: groups, subgroups and factor groups, homomorphisms, rings, fields. (Students may not receive credit for both Math 100A and Math 103A.)

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

**Academic Honesty** Academic dishonesty is considered a serious offense at UCSD. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the University. It is in your best interest to maintain your academic integrity.

**Homework** Homework will be assigned on the website every Monday.

It will be due one week later every Thursday at 12pm, via Gradescope.

Late problem sets are **not accepted**, however the lowest problem set score will be dropped.

At the top of every of each assignment should appear

- (1) Your name.
- (2) Your section leader's last name.
- (3) Your section time.
- (4) Either the text "Sources consulted: none" or a list of all sources consulted other than the main textbook, supplementary notes, and your own notes from lecture and section. This is *required*.

(Examples of things that should be listed if used: office hours, names of study group partners, Wikipedia, ChatGPT etc.)

You should not expect to be able to solve every single problem on your own; instead you are encouraged to discuss questions with each other or to come to office hours. If you meet with a study group, you may find it helpful to do as many problems as you can on your own beforehand. But write-ups must be done independently. (In practice, this means that it is OK for other people to explain their solutions to you, but you must not be looking at other people's solutions as you write your own.) Use examples in the book as a model for the level of detail expected. Write in complete sentences whenever reasonable. If you have questions about the homework, it is best to ask these in office hours.