

SYLLABUS – MATH 6310, FALL 2019

ABSTRACT ALGEBRA

Description: We will cover groups, rings, modules and some homological algebra.

- **Time:** Monday, Wednesday, Friday 12:55pm–1:45pm
- **Location:** JTB 110
- **Instructor:** Karl Schwede
- **Contact information:**
 - email: schwede@math.utah.edu
 - office: JWB 315
 - website: <http://www.math.utah.edu/~schwede/math6310>
- **Office hours:** TBD.
- **Textbooks:**
 - You can choose the textbook you like best. Some good options include:
 - “Abstract Algebra”, *Davis S. Dummit and Richard M. Foote*
 - “Basic Algebra I, II”, *Nathan Jacobson*
 - “Algebra”, *Serge Lang*I will mostly follow Jacobson.

Grade: Your grade will be determined by the following formula.

- 50% Homework and worksheets (due about once every one or two weeks – not every problem will be graded).
- 20% Midterm, tentatively Friday October 25th, in class.
- 30% Final.

Generally speaking, late homework will not be accepted. In unavoidable circumstances, you must speak with the instructor *prior* to missing the homework in order to receive credit. In such situations, the impact on the grade will be dealt with on a case by case basis.

We will try to use **gradescope** for turning in homework.

Students are allowed, and even encouraged to work together when solving homework problems (although each student is responsible for their own write-up). LaTeX use is encouraged.

Prerequisites: Students taking this course should be familiar with groups, rings and fields at the undergraduate level.

Academic Integrity: All University of Utah policies regarding ethics and honorable behavior apply to this course.

Disabilities: The Americans with Disabilities Act requires that reasonable accommodations be provided to qualified individuals. To discuss any such accommodations, please contact me as well as the Center for Disability Services, (801) 581-5020, at the beginning of the semester.