

Math 5320-001 Introduction to Modern Algebra II  
Spring 2018 Syllabus

**Instructor:** Katrina Honigs, office JWB 101, email [honigs@math.utah.edu](mailto:honigs@math.utah.edu)

**Course Webpage:** <http://www.math.utah.edu/~honigs/5320>

**Meets:** MWF 12:55-1:45 PM, JWB 208

**Office Hours:** M 11-12, T 2-3, F 11-12 in JWB 101

**Textbook:** “Algebra” by Michael Artin, Second Edition, Prentice Hall, ISBN-10: 0-13-241377-9, ISBN-13: 978-0-13-241377-0

**Course Description:** This course will cover basics on rings, modules and fields with the particular goal of studying Galois theory, working up to proving that there is no closed formula for roots of a degree 5 polynomial and studying ruler and compass constructions. Students will continue to practice and hone their proof-writing and problem-solving skills. The main text for this course will be Artin’s algebra, drawing from Ch. 11-16.

**Prerequisite:** C or better in Math 5310

**Coursework and Grading:** Course grades will be composed of the following:

- In-class Worksheets: 10%
- Homework: 20%
- Three in-class midterms: 15% each
- Final exam: 25%

Homework assignments will be posted weekly on the course webpage and will usually be due on Wednesdays. The lowest two homework grades will be dropped.

In-class worksheets will be distributed on non-exam days. They will be graded as complete or incomplete. The lowest three will be dropped. Students must attend lecture to receive credit for the worksheets.

The midterm exams will be on January 30, February 28 and March 30. The final exam timeslot for this class is Monday April 30, 1-3 pm.

The grading scale will be the usual: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), E (0-59).

**ADA:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. Students are encouraged to approach the instructor and the Center for Disability Services to make suitable arrangements if needing special accommodations.

**Classroom Social Equity:** It is important to the learning process that everyone in my classroom treats one another with kindness and respect.

Also, please feel free to inform me of whichever pronouns you prefer me to use for you. If your preferred name is different than the name that will show up on my CIS roll sheet, please inform me so that I can address you correctly. I will be happy to honor your request and ask you correct me if I make a mistake.

I reserve the right to change the policies in this syllabus during the semester. If I do make a change, I’ll announce it in class as well as email it or post it to the course website.