

Math 6080-30 Topics in Contemporary Mathematics
Summer 2018 Syllabus

Instructor: Katrina Honigs, office JWB 101, email honigs@math.utah.edu

Course Webpage: <http://www.math.utah.edu/~honigs/6080>

Meets: LCB 121, 8 am - 12 pm. The schedule is irregular due to the July 24 holiday:

Week of July 16: M-H

Week of July 23: W-F

Week of July 30: M-F

Course Description: In this course we will learn about several different mathematical topics. Class time will generally be guided by a series of questions to discuss and work on in small groups. We will also read and discuss some articles from online periodicals and math blogs, as well as maybe listen to some podcasts.

Coursework: You may wish to continue working on worksheet questions from class afterwards, but it will not be required to turn them in. Reading a short article or listening to a podcast will be sometimes assigned to be done outside of class. Otherwise, there there will be two main assignments for the course:

- Write a summary of the math covered in the course. During class we'll be asking and answering questions and reading articles, and the goal is to distill what we discover into narrative form. This assignment is meant to help with the process of digesting the course material and also provide a nice reference for you to have later. This write-up will be due at the end of the course, but I recommend working on it steadily as the course goes on.
- With a partner, generate a lesson plan about one of the topics on the course. These plans will be presented on the last day of the course. The goal is that everyone in the course (including me) will be able to walk away from these presentations ready to immediately go teach a class or math circle session, etc to students somewhere in the K-12 range.

Goals: To learn about some topics that will generate ideas for masters projects and for lessons for K-12 students. To read some interesting articles about math and discover some interesting math blogs To enjoy spending this time thinking about interesting things!

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.