SYLLABUS

Math 632

- Instructor: Karl Schwede
- Grader and assistant: Kevin Tucker (kevtuck@umich.edu)
- Class web page: http://www-personal.umich.edu/∼kschwede/math632 Also see: http://ctools.umich.edu/
- Text: *Algebraic Geometry* by Robin Hartshorne
- Supplementary texts:
  - *Introduction to Commutative Algebra* by Michael Atiyah and I. MacDonald
  - *Commutative Ring Theory* by H. Matsumura
  - *Commutative Algebra* by H. Matsumura (this is the book cited within Hartshorne)
- Contacting the instructor:
  - Email: kschwede@umich.edu
  - Office: 3828 East Hall
  - Office Hours: Monday 2:00-3:00, Wednesday 3:00-4:00, Tuesday and Thursday 11:30-12:00 (after class)
  - Instant Messaging (do not email me at these addresses, I won't get it):
    AIM: keschwede
    MSN: kschwede@mailcity.com
    google: kschwede@gmail.com

Course Content: We will be covering most of chapters 2 and 3 in the text.

Homework: You will each be assigned 2-3 problems every week or two. Different people will be assigned different problems, but you may work together (including with people not assigned that problem, but please give credit where credit is due). If two or more people are working the same problem, they may either submit a single solution if they did it together, or they may submit solutions separately. You should post your solutions, in latex format and in pdf, on the course website in ctools. Instructions for formatting are available on the ctools website and on the course website.

You will also be responsible for reviewing 2 problems per week from the previous weeks section (starting after the first homework is due, you may also get started sooner if problems are available). This involves reading two solutions on problems that you did not yourself do, and making sure the solution is correct and typo-free (please point out errors in a polite and professional way, or do so privately). You may also comment on formatting issues or simply if you have a suggestion for how to better phrase something. Kevin Tucker (kevtuck@umich.edu) and myself will be moderating as well.

By the end of the course, we should all have typed solutions to many problems in Hartshorne's algebraic geometry.

Grades: Hopefully this amount of homework will not be too onerous, and I will be able to give everyone an A.

First homework: Due tonight! Your homework for tonight is to log in to the ctools website and find what homework problems you have been assigned. To find this, navigate to: "MATH 632 001 W08", then click on "Forums" (on the left side), then on "Problem Assingments – Week 1 – Due Friday Jan 11th", and click on "Read Full Description".