

MATH 64091 ADVANCED PROBLEM SOLVING II FALL 2015

Description

This is the second half of a year-long sequence. The class meets every other week with homework assigned on-line every week. The emphasis is on connections between various topics in Algebra, Geometry, and Combinatorics. The topics covered may include: Invariants and Monovariants, The Four Numbers Problem, Rational Right Triangles and the Congruent Number Problem, Lattice Point Geometry, Pick' Formula, Rational Approximation, Dissection, Voting Systems and Arrow's Theorem, Marriage stability problem, Magic Squares.

Website

Homework assignments and other materials will be posted at
www.math.kent.edu/~soprunova/64091f15

Contact Info

Instructor: Jenya Soprunova

Office: MSB 219

Phone: (330)672-9086 (It's more efficient to contact me over e-mail.)

E-mail: soprunova@math.kent.edu

Office Hours: You can always e-mail me your questions.

Class schedule

We will have eight class meetings on Tuesdays 4:25-7:05 (with a ten minute break in the middle). Here are the preliminary dates: Sept 1, 15, 29, Oct 13, 27, Nov 10, 24, Dec 8.

Grading

Homework (50%) + Take Home Midterm Exam (25%) + Final Project (25%)

Homework

You will be assigned homework due Tuesday of every week (even when we do not have class meetings). The assignments will be posted on the course website. You will be submitting your homework on Blackboard Learn.

Exams

- Midterm: take-home midterm, date: to be determined
- Final project: Presentations on Dec 8th.

Students with disabilities

University policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-672- 3391 or visit www.kent.edu/sas for more information on registration procedures).

Registration Deadlines

The official registration deadline (add/drop) for this course is September 13th. University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashLine) prior to the deadline indicated. Registration errors must be corrected prior to the deadline. The course withdrawal deadlines are September 13th (without a W) and November 8th (with a W). To get 100%/80% tuition refund you need to withdraw by Sept 6 /Sept 13.

Academic Honesty

University policy 3342-3-01.8 deals with the problem of academic dishonesty, cheating, and plagiarism. None of these will be tolerated in this class. The sanctions provided in this policy will be used to deal with any violations. If you have any questions, please read the policy at <http://www.kent.edu/policyreg/chap3/3-01-8.cfm> and/or ask.

In this course you are allowed to discuss assigned homework with your fellow students but you have to write up your solutions on your own (without other people present and not using notes from discussions with other people).