

**64091 ADVANCED PROBLEM SOLVING I
FALL 2016**

Homepage

Here is the course homepage <http://www.math.kent.edu/~soprunova/64091f16> with some information about the course. Homework assignments will be posted on the course webpage.

Description

The topics covered may include: Parity, Invariants, Checkerboard Problems, Weighings on a balance scale, Games with winning strategy, the Game of Nim, Pigeon-Hole Principle, the Marriage stability problem, Lattice point geometry, Dissections, Coloring of the plane, Polytopes and colorings.

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 or talk to me after class. Coming earlier and talking before class is also an option, but, please, do let me know you are planning to do so beforehand.

Class schedule

We will have eight class meetings on Wednesdays 4:25-7:05 in Henderson Hall 105 (with a ten minute break in the middle) during the semester. Here are the preliminary dates: Sept 7, 21, Oct 5, 19, Nov 2, 16, 30, Dec 7.

Grading

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

Homework

You will be assigned homework due Wednesday 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.

Exams

- Midterm: Take-home midterm, in place of one of the homework assignments, date: to be determined, possibly due Oct 26.
- Final Exam: December 7th, in class.

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).

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/administrative-policy-regarding-student-cheating-and-plagiarism> 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).