

Stony Brook University
Mathematics Department
Alexander Karp, Julia Viro

**Seminar in Mathematics
in Teaching and Learning**
MAT 519
Fall 2016

Syllabus

Course description: In this problem solving course, participants will be involved in the analysis and discussion of a variety of mathematical problems useful for the prospective teachers, as well as in problem posing and analysis of typical students' misconceptions and difficulties. The course aims to show how deep and rich school mathematics is and to demonstrate its connections with more advanced mathematics.

Instructors:

Alexander Karp. E-mail: apk16@columbia.edu
Office hours: by appointment

Julia Viro. E-mail: julia@math.stonybrook.edu
Office hours: Tu 11:30am-1:00pm and 4:00pm-5:30pm (MLC), Th 11:30am-12:30pm (MLC).

Textbooks:

A. Karp, N. Wasserman, *Mathematics in Middle and Secondary School. A Problem Solving Approach.*

A. Karp, J. Viro, *Problem Book for Math Teachers.*

Meetings: TuF 5:30pm-6:50pm in Physics P112.

Homework: will be assigned weekly.

Grading system: your grade for the course will be based on: homework 10%, take home midterm 10%, take home final exam 30%, in class final exam 40%, project (essay) 10%.

Make-up policy: Make-up examinations are given only for work missed due to unforeseen circumstances beyond the student's control.

Disability support services (DSS) statement: If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services (631) 6326748 or <http://studentaffairs.stonybrook.edu/dss/>. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities/asp>.

Academic integrity statement: Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another

person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary>

Critical incident management: Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.