

**Stony Brook University**  
Mathematics Department  
Julia Viro

**Seminar in Mathematics  
in Teaching and Learning**  
MAT 519  
Spring 2020

## 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.

**Instructor:**

Julia Viro. E-mail: [julia.viro@stonybrook.edu](mailto:julia.viro@stonybrook.edu)  
Office hours: TuTh 10:00am-11:00pm and 2:30pm-3:30pm (MLC) or by appointment.

**Textbooks:**

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

A. Karp, J. Viro, *Problems In Algebra for Teachers*, Information Age Publishing.

**Meetings:** TuTh 5:30pm-6:50pm in Humanities 2047.

**Homework:** will be assigned weekly.

**Grading system:** your grade for the course will be based on: homework 10%, midterm 20%, take home final exam 20%, in class final exam 30%, in-class discussions 10%, project (essay) 10%.

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

**Student Accessibility Support Center (SASC) statement:** If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact SASC (631) 632-6748 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 SASC. 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.