

MAT 519 Seminar in Mathematics Teaching

Fall 2014

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Office hours: Tuesday, Thursday 7:00pm-8:15pm in 5-110 Math Tower or by appointment.

Lectures: Tuesday and Thursday, 5:30-6:50pm, in Mathematics 4130.

Course description: The course is to bridge the knowledge of mathematics acquired in other courses of the STO program with the practical needs of a mathematics teacher at a secondary school. Since schools are undergoing a transition to the new Common Core State Standards, a big part of the course is devoted to clarification of the changes in the content of the secondary school mathematics due to introduction of the Common Core State Standards and their implementation in the New York State. Students will write essays with analysis of the changes and the correspondence between the original CCSS and its NY implementation. The essays will be presented by the authors in concise lectures. Besides, there will be considered a few practical topics concerning composing lessons, homeworks, tests, advantages and disadvantages of multiple choice tests and word problems. In particular, methods of preparing students to tests will be considered. A separate topic of study will be math circles and problems for advanced students.

Grading system: The final grade is the maximum of the essay grade and the weighted average according the following weights: homework 15%, in-class tests 25%, essay 60%.

Homework: will be assigned once in two weeks through the Blackboard and collected in class on Thursdays. Please write legibly and explain your reasoning clearly and fully. Homework will constitute a significant part of your course grade. Please, be sure to put your name on your homework and staple all pages. You are welcome to collaborate with others and even to consult books, but your solutions should be written up in your own words, and all your collaborators and sources should be listed.

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, ECC (Educational Communications Center) Building, room 128, (631) 632-6748. They will determine with you what accommodations, if any, 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>

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 instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Critical Incident Management Statement: 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, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.