

## MAE 530 DIRECTED READINGS AND RESEARCH

FALL 2013

**Instructor:** Lisa Berger

**Office:** Math 4-105

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**Current Office Hours:**

Mondays: 1:00-3:00, Room 4-105

Tuesdays: 1:15-2:15, Room P-143

By appointment. Please send email to schedule.

Office hours may be adjusted to accommodate the instructor's schedule and/or student needs. Students unable to meet during scheduled office hours are encouraged to schedule an appointment with the instructor.

**0.1. General Information.** In this course, a co-requisite to MAE 540, Clinical Experience, we will study current issues in mathematics education. Students should become familiar with the research literature, as well as with the New York State Code of Ethics for Teachers and INTASC dispositions. Students should reflect on the implications of mathematics education research on their own classroom practices and also on the limitations of research.

**0.2. Class Participation.** This course will be conducted as a discussion, to accompany independent work by students. Students are expected to complete assigned readings prior to class meetings and contribute to the class discussion.

**0.3. Written assignments.** In addition to completing required readings, each student is expected to write one 3-4 page paper and one 8-12 page paper. The topic must be approved by the instructor, and the final paper must integrate discussion of the New York State Code of Ethics for Teachers and the INTASC dispositions.

The first paper is a *research article summary* on an approved topic of choice. For this paper each student will summarize one research article from a primary source, such as the *Journal for Research in Mathematics Education*. Further guidelines for the paper will be given in class.

The final paper is an extension of the first and should be a more in-depth discussion of the subject studied for the research summary. Each student should find at least three additional sources on the same topic. It is acceptable to include assigned class reading among the sources. Students may draw freely on the ideas and the writing in the research summary for the final paper. Further guidelines for the paper will be given in class.

Each paper should be clear and grammatically correct, and APA style (fifth edition) is required for both papers. An excellent and inexpensive reference that should help address common errors in grammar and style is:

Strunk, W., & White, E.B., (2000). *The elements of style*. (4th ed.). Needham Heights, MA: Allyn & Bacon.

0.4. **Final Grades.** Final grades will be assigned as follows:

- (1) Class Participation: 15%
- (2) Research Article Summary: 20%
- (3) Final Paper: 65%

0.5. **Academic Integrity:**

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/uaa/academicjudiciary/>

0.6. **Americans with Disabilities Act:** 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, room128, (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.

0.7. **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, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.