



MATH 6923: Research in Undergraduate Mathematics Education II

Syllabus

Instructor Contact Information

Instructor: Dr. Michael A. Tallman
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Office/Phone: MS 417; 744-5479
Office Hours: Monday, 9:00 AM - 11:00 AM in MS 417

Class & Resource Information

Class Meeting: Wednesday, 4:30 PM - 7:10 PM
Class Location: MS 428

Required Materials:

The instructor will distribute materials and assignments electronically throughout the semester. It is strongly recommended that you obtain some sort of bibliographic management software (e.g., EndNote, Zotero).

Course Information

The primary goal of this course is in concert with its prerequisite: to advance your ability to read, discuss, criticize, and draw practical conclusions from research in mathematics education, all with the overarching aim of broadening your perspective on areas of past and current mathematics education research. However, this course will build on its prerequisite by emphasizing the role of theory in mathematics education research—a consideration of various types of theories, their meanings, and the ways in which they inform specific qualitative methodologies.

Expectations/Activities: All students are expected to be active participants during class sessions. Being a continuation of its prerequisite, this course will entail a similar interrelated strand of activities:

- (1) Directed readings and critical discussions and analyses of research on, or pertinent to, mathematics learning and instruction.
- (2) Analyses of existing empirical data—in the form of videotaped classroom/interview excerpts—drawn from recent projects in mathematics education.
- (3) Design and implementation of a project involving a task-based clinical interview with an individual learner of an appropriate age and educational background.
- (4) Develop a focused problem that is feasible for you to investigate as a research study.

Each of these activities may be supplemented by more specific and targeted activities chosen at the instructor's discretion (e.g., you could be asked to provide written responses to specific questions).

Missing Work Policy: Reasonable accommodation will be offered in the event that you miss a major assessment activity for a valid and documented reason.

Syllabus Attachment: Please read the OSU syllabus attachment on the web from the page:

<http://academicaffairs.okstate.edu/content/resources-faculty-staff> and follow the link under Syllabus Attachment for Fall 2015. This has a lot of important information, including instructions about disability accommodations. Please contact me privately during the first week of the course if you need accommodations as the result of a disability. Any changes to this syllabus will be announced in class and posted on D2L.

Grades

Participants must satisfactorily engage in and complete all course activities to receive a passing grade in the course. One of two passing grades, A or B, will be assigned depending on the markedness and significance of the developments in the products specified above. Specific resources and guidelines to assist you in meeting the course aims and your development of products will be provided in a timely manner throughout the semester.

Academic Integrity

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct. Please see the OSU Fall 2015 Syllabus Attachment for more information. You are encouraged to work and study together, however **all written and online work you hand in must be your own**. Copying someone else's work or letting others copy your work is prohibited. Do not cheat. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript (F!), and being suspended from the University.