

MATH 3850: Seminar in Guided Mathematics Instruction, Spring 2013

General Info

Instructor: Professor David Grant, grant@colorado.edu

Office Hours: MTWF 12:30-1:30 p.m., in Math 303 (x2-7208).

Class Meetings: T 5-5:50 PM in MATH 350.

Prerequisites.

Open to all Learning Assistants in the mathematics department currently working on first-year calculus courses.

About the course.

We will have weekly discussions about facilitating group work in mathematics, especially as it relates to recitations in first-year calculus courses in the Department of Mathematics. We will focus on the mathematics being covered in the calculus courses, respecting students, preparation, answering questions, how students learn (in particularly directed learning and inquiry-based learning), and dealing with problem students.

We will work hard to make our classroom a supportive environment, so students will feel comfortable speaking their minds, and participating in pedagogical exercises ranging from role playing to microteaching. We expect all students to help to create such an environment.

Further reading

The literature on mathematics education is vast, and the University has several experts in mathematics education in the School of Education. Our students have profited from looking at *The Torch or the Firehose*, by Arthur Mattuck, and *Teaching Mathematics in Colleges and Universities: Case Studies for Today's Classroom*, by Solomon Friedberg, et. al.

Course requirements and grading.

This course will meet one day a week. You will be graded solely on class participation and attendance. SO NO UNEXCUSED ABSENCES WILL BE PERMITTED.

Et Cetera:

The University's academic calendar is at

http://registrar.colorado.edu/calendar/pdf/Spring_2013_academic_calendar.pdf

Please inform us as soon as possible should you need, due to your observance of a religious holiday, to miss a homework, or class. Provided you notify us well in advance, every effort will be made to reach a reasonable accommodation.

If you qualify for accommodations because of a disability, please submit to us a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. See www.Colorado.EDU/disabilityservices.

The University has an honor code, see <http://www.colorado.edu/academics/honorcode>.

The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty.

See <http://www.colorado.edu/odh>.