

Seminar and Practicum in the Teaching of College Mathematics

Fall Semester 2018 Syllabus

MWF 1:30-2:20 HSCI 004A

Instructor: Anthony Kable
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Office Hours: TR 1:00-2:00, W 11:30-12:30 in MSCS 521
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The aims of this seminar include the following:

- To understand the components of competent mathematics teaching in college.
- To develop the necessary practical and analytical skills to teach competently and efficiently.
- To review elementary mathematics as necessary and to begin making connections between elementary and advanced mathematics.
- To improve in the written and spoken communication of mathematics.

The seminar may also include some discussion about learning mathematics at an advanced level and being successful in graduate school.

We will read selections from the book *Teaching Mathematics in Colleges and Universities: Case Studies for Today's Classroom (Graduate Student Edition)* by Solomon Friedberg et al., published by the American Mathematical Society. You will need access to a copy of this book in order to do the assigned reading. Many students who have taken this class previously already have copies, so I suggest asking around before buying a copy.

ALEKS

The ALEKS test is used extensively at OSU for placement in undergraduate classes up to Calculus I. Because many of your students will have taken the ALEKS test, it is helpful to become familiar with the content and format of the test by taking it for yourself. You can do so by following the instructions at

- [OSU math placement information](#)

You should complete the ALEKS test by Friday, August 24.

Required Training Online

You are required to complete the following training and assessment online:

- Responsible Conduct of Research training
- FERPA tutorial
- 1is2many training
- Titles VII and IX training

When you complete each of these you should print out the confirmation page and give me a copy. The RCR training is divided into subject areas, none of which exactly matches mathematics. You may choose whichever one you prefer. You should complete the Student Employee training for Titles VII and IX. The FERPA training should be completed by Monday, October 22; the others should be completed by Friday, November 30.

Grades

Your grade in this class will be based upon the following components:

- Class Participation (15%)
- Four Presentations (5%, 10%, 15%, 20%, respectively)
- Two Observations (5% each)
- A Grading Exercise (15%)
- ALEKS and online training (10% for completion)

I will follow the 90%/80%/70%/60% system for assigning letter grades, with discretion for close cases. I will announce preliminary grades during prefinals week. An optional final exam, which will take the form of a substantial presentation on an assigned topic together with supporting material, will be offered in case you wish to improve your preliminary grade. If you choose to take the final exam then the grade on this exam may replace half your presentation grade. The nominal time for the final exam is Friday, December 14 from 2:00-3:50pm.

Miscellaneous Information

You should read the syllabus attachment for Fall 2018, which I shall post on D2L. This is a document that outlines some of the general academic policies of the University, as well as listing important dates. You are subject to the University's policy on academic integrity. Information about this policy may be reached from the Division of Academic Affairs page [here](#).