

MA 601
Teaching College Mathematics
Fall 2017
M 4-4:50 pm — POT 745

Instructor: Carl Lee.

Office: 967 Patterson Office Tower.

Mailbox: 715 Patterson Office Tower.

Email: lee@uky.edu (preferred method for reaching me).

Phone: 257-1405 (or 257-3336 to leave a message).

Office Hours: By appointment.

Course Web Page: I will post materials here: <http://www.ms.uky.edu/~lee/ma601fa17/ma601fa17.html>.

Course Description: A seminar for teaching assistants on the basics of teaching mathematics at the college level as well as use of appropriate technology. Includes topics such as syllabus construction, lesson planning, grading assignments, web pages, typesetting mathematics with L^AT_EX. Required of all new graduate teaching assistants in mathematics.

Prerequisites: Must hold teaching assistantship in mathematics or consent of the instructor.

Student Learning Outcomes: Students will become familiar with information and practices for the effective teaching of mathematics.

Text: *Teaching First: A Guide for New Mathematicians*, by Thomas W. Rishel, available online at <https://www.maa.org/programs/students/student-resources/a-handbook-for-mathematics-teaching-assistants>.

Attendance and Participation: Attendance is expected. If you miss a class for any reason, please let me know the reason immediately—an email message will suffice. I will give you

an opportunity to make up graded work missed due to an excused absence. For more information on absences, see https://www.uky.edu/ombud/sites/www.uky.edu.ombud/files/5.2.4.2_ExcusedAbsences_0.pdf.

Course Expectations and Grading: Students are expected to attend all sessions and fully participate in the discussions, including completing reading assignments for each session. In addition, there will be other assignments, such as making and reporting on peer teaching observations, and preparing a teaching statement. Your grade will be determined by attendance, participation in class discussions, and completion of assignments. Please see me if you have any questions.

Topics (Not Necessarily in Order):

- Getting Started.
- Preparing a Website
- UK Policies and Infrastructure
- Background of Students
- High Cognitive Instruction
- Cooperative Learning
- Formative Assessment
- Common Core State Standards for Mathematics
- Online Homework Systems
- L^AT_EX
- GeoGebra
- Classroom Management
- Midterm Evaluations
- Writing and Grading Assignments: Homework/Quizzes/Exams
- Writing a Syllabus

- Preparing a CV and a Teaching Statement
- Course Evaluations
- Other Miscellaneous Topics

Academic Integrity: Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed. For more information, see <http://www.uky.edu/ombud/academic-offense-information-students>.

Accommodations Due to Disability: If you have a documented disability that requires academic accommodations, please see me as soon as possible. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center. See <https://www.uky.edu/DisabilityResourceCenter>.

Suggestions and Other Course Issues: Suggestions for improvement are welcome at any time. Any concern about the course should be brought first to my attention. Further recourse is available through the Mathematics Director of Undergraduate Studies and the Department Chair, both accessible from the Main Office in 715 Patterson Office Tower.

Important Dates:

August 23 — Wednesday — First day of classes

September 4 — Monday — Labor Day — Academic Holiday

October 16 — Monday — Midpoint of 2017 Fall Semester

November 22–25 — Wednesday through Saturday — Thanksgiving — Academic Holidays

December 8 — Friday — Last day of classes