

Effective Thinking Through Mathematics

Modern Mathematics: Plan II (M310P), Spring 2019

Instructor: Professor Michael Starbird, RLM 11.122, 512-471-5156, starbird@mail.utexas.edu

Office hours: MWF 10:00-11:00.

Teaching Assistant: Hannah Turner

Office hours:

Texts: *The Heart of Mathematics: An invitation to effective thinking, 4th edition*
by Edward B. Burger and Michael Starbird, Wiley & Sons, 2012.

The 5 Elements of Effective Thinking, by Edward B. Burger and Michael Starbird,
Princeton University Press, 2012.

Homework Exercises:

Homework will be due regularly, usually each Wednesday. Work will be submitted via Canvas. Clarity of exposition is extremely important. Thus, you should strive for well-written, polished answers. Collaboration on these assignments with others from *this class* is encouraged after you have worked on all the questions on your own. Submitted work must be individually written up and all collaborators should be acknowledged.

Workshop Sessions:

Once every two weeks you will meet with Hannah with a small group of about five students to discuss the mathematics. You will sign up for these sessions during the first couple weeks of class. Sessions will be held for 30 minutes each. Your performance in the workshop sessions will be partially measured by your presentation and discussion of selected homework challenges with your peers and Hannah.

Examinations:

Two mid-term tests will be given, one on February 15 and the other in early April. The date of the April test will be announced at least a week before the test. There will be a comprehensive final examination on Thursday, May 16, 9:00 a.m.-12:00 p.m..

Stories of Creation/Math as Metaphor:

On several occasions during the semester, you will be asked to take a mathematical concept and create a story illustrating how that idea could have been conceived and developed. As a final project, choose an issue that you care about outside mathematics. Then produce a similar story that illustrates how you created a new insight or product in that other field by using the elements of effective thinking that we discuss during the semester. These projects will be described more fully during the semester.

Thinking Through Mathematics

Huangqi Zhang



Thinking Through Mathematics:

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