Math M596  Seminar In teaching of College Math

Meeting Time and Place:  Tuesdays 4:00 – 5:00  Rawles Hall 104

Instructor:  Linda McKinley

Math M596 meets once a week for the entire semester (spring only). This course is designed for graduate student teachers who have taken M595, and who may have accumulated several semesters of teaching experience. Spring 2017, we devoted most of the M596 course to training associate instructors to teach M106, a new General Education mathematics course. Because M106 uses a very active classroom format and covers material that is new to many graduate students, substantial training is required.

Math M106 consists of six independent components which explore the mathematics behind: perspective, symmetry, music, graph theory, game theory and social choice. The course was designed by committee in the Math Department here, and I invited the authors of each segment to come to my seminar and present. We then used the remaining days to discuss the course material and effective ways of teaching it. Specifically, we followed the following schedule Spring 2017:

   January 10, 17, 24  Preliminaries: Preparing presentations, developing activities and improving mathematical explanations

   January 31  Graph Theory presentation

   February 7  Graph Theory activities and discussion

   February 14  Game Theory presentation

   February 21  Game Theory activities and discussion

   February 28  Symmetry presentation

   March 7  Perspective presentation

   March 21  Symmetry and Perspective activities and discussion

   March 28  Social Choice presentation

   April 4  Social Choice activities and discussion

   April 11  Music Presentation

   April 18  Music activities and presentation

   April 25  Effective use of Group work and activities in the classroom