

## **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