MATH 480
Senior Seminar
Spring 2009

Date: May 8th, 2009

Speaker: Katie Jacobs, UNC Asheville

Title: *Applications of graph theory and conflict-free scheduling*

Abstract: How do you schedule conflict-free parties for recently divorced couples that wish to meet new dating prospects? Several dating services have posed this question with hope to design a successful sequence of parties. This talk is a reflection on a paper which will summarize an approach taken to solve this dilemma. We assume the audience to have a general understanding of linear algebra and graph theory. In this talk, it will be proven how to find the *biclique partition number* of a graph which is directly related to determining the best manner in which to schedule conflict-free parties.