DISCRETE MATHEMATICS SEMINAR

CENTER FOR APPLIED MATHEMATICS AND SCIENCE

DEPARTMENT OF MATHEMATICS

UNIVERSITY OF WEST GEORGIA

2:00 - 3:00 PM

Friday, October 12, 2018

BOYD 307

Speaker: Dr. **David G. Robinson** (UWG)

Title: **Complete Magic Venn Diagrams**

Abstract:

Many classical 'magic' figures, such as magic squares, magic stars and (more recently) magic graphs, can be regarded as Venn diagrams in which the nonempty regions are weighted by consecutive natural numbers in such a way that all of the underlying sets have the same total weight - or *'magic' sum* m. In this talk we shall briefly review this concept of a *magic Venn diagram* (MVD), and then show how to construct a *complete* MVD of maximum (and hence also minimum) possible magic sum m for any number of sets.