

# Discrete Mathematics Seminar

Illinois State University

2:00–2:50 pm, September 23

Speaker: Sogol Jahanbekam, San Jose State University

## Graph Coloring and its Application in 3D-Printing

A coloring over the vertices of a graph  $G$  is proper if adjacent vertices of  $G$  receive different colors. The smallest number of colors we need to color the vertices of a graph properly is said to be the chromatic number of the graph. In this talk, we talk about the proper coloring of graphs and algorithm complexities for the problem. We then proceed with some applications of the proper coloring of graphs and conclude with its applications in 3D-printing.

