

Speaker: **Oscar Vega**

Title: **The well-covered dimension of a graph**

Abstract: Graph theory uses techniques that are not necessarily those commonly associated with discrete structures. Among those other areas linked to graphs is linear algebra. In this talk we will see how a vector space of functions can be constructed from any given graph, and from there we will attach the graph with the dimension of that vector space. This number is called the well-covered dimension of the graph, and this presentation will be a summary of everything that is known about this topic by now.

Quite a few results to be mentioned in this talk were obtained by one of our undergraduate students (Isaac Birnbaum) as part of his Senior Project. We encourage student's attendance to this talk.