

1154-VG-1311 **Jessica Oehrlein*** (jeo2136@columbia.edu). *Maps, Bridges, Networks, and Art Galleries: Introducing Secondary Students to Graph Theory through Classic Problems.*

Over the past few years, I have taught several iterations of two different one-hour courses in graph theory for middle and high school students. Both courses are based around classic and accessible problems in graph theory. One course briefly explores the Bridges of Königsberg problem, map coloring, and ways of describing centrality in networks. The other course goes in-depth into the art gallery problem. I will give a survey of the courses and show student feedback, how the classes have changed over time, and what I plan to change in the future. (Received September 14, 2019)