

1154-VG-946 **Brian Drake*** (drakebr@gvsu.edu). *Incorporating Python in a Linear Programming Course.*

Our undergraduate math majors and minors are offered an introductory course in linear programming. It builds on their linear algebra skills to develop some theory of standard algorithms, while also using coding to investigate optimization applications with thousands of variables. In the past we have used Maple as a unified platform for linear algebra and programming; in this presentation we describe using Python as an alternative. We share some example activities and discuss the student experience in one semester of the course. (Received September 12, 2019)