

1014-T1-625      **Bill Fox\*** ([bfox@fmarion.edu](mailto:bfox@fmarion.edu)), Department of Mathematics, Francis Marion University, Florence, SC 29501. *Undergraduate Nonlinear Optimization*.

At Francis Marion University, I have introduced courses in both linear and nonlinear optimization. In this talk I will cover applications and solution techniques to multivariable unconstrained and constrained optimization (Lagrange and Kuhn-Tucker) problems that I covered in my nonlinear optimization class taught last spring. One of my emphasize will be on the geometric interpretation. I will also include a brief description of projects and carry through projects for these topics. (Received September 21, 2005)